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INSECTICIDE REPORT

for 1955



THE BULLETIN
of the

North Carolina Department of Agriculture

L. Y. BALLENTINE, *Commissioner*

Number 144

June, 1956

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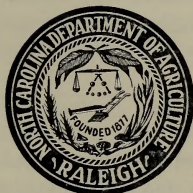
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North Carolina

INSECTICIDE REPORT

for

January 1 - December 31, 1955



THE BULLETIN

of the

North Carolina Department of Agriculture

Raleigh, N. C.

L. Y. BALLENTINE, *Commissioner*
JOHN L. REITZEL, *Assistant Commissioner*
E. W. CONSTABLE, *State Chemist*

Number 144

June, 1956

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Inspection and Analysis of Economic Poisons

Economic poisons or pesticides cover a large number of materials and mixtures intended for destroying, controlling or repelling pests such as insects, weeds and other noxious plants, predatory animals and birds, soil-infesting pests such as nematodes, algae, snails and bacteria. Other examples are disinfectants, antiseptics and fungicides for use other than on living man or other animals, defoliants, various repellents, fly paper and other adhesive products whose action goes beyond simple mechanics, moth proofers, wood preservatives other than common paints, mildew controls, and seed fumigants and disinfectants.

An adequate and reliable supply of these products is as indispensable as is fertilizer in the production of food and fiber crops. Weed killers and defoliants are important adjuncts. The preservation of many products in storage and the control of domestic and industrial pests which affect both the health and welfare of human beings and animals are likewise dependent on such materials.

While encouraging the development and distribution of reliable products to serve these needs, and with due regard for public health and welfare, it is the purpose of the economic poisons law (the North Carolina Insecticide, Fungicide and Rodenticide Act of 1947, G. S., Article 4A, Chapter 106) to protect the public from adulterated, misbranded, worthless and dangerous products, and legitimate manufacturers from unscrupulous competition. Among other requirements, the law authorizes inspections, analyses of official samples taken from products offered for sale within the state and publication of results. With other pertinent information, there is given in this issue of The Bulletin a list of registrants, a summary of registrations and detailed results of analyses of official samples taken throughout the state by inspectors of the department, for the calendar year 1955. Included also are the North Carolina Aerial Crop-Dusting Law, regulations and registrants under that law, for 1955.

Before any brand of economic poison can be legally offered for sale in the state, it is required that it be registered with the Department of Agriculture. Application forms, furnished by the department, must be submitted in triplicate with copy of all labeling and claims. Applications must be accompanied by an inspection fee of ten dollars per brand and grade, payable to the North Carolina Department of Agriculture. All registrations expire December 31 of each year and are subject to re-registration with annual payment of inspection fees. Requirements are given in fuller detail in the "Brief of North Carolina Insecticide Law" on pages 5 and 6. Copies of the law and related regulations are available on request.

A statewide inspection service is maintained for the collection of official samples of economic poisons from farms, other users, and dealers. Individual requests for inspections are followed up promptly.

Samples are sent to the department's laboratories for analysis and as soon as this work is completed, individual reports are forwarded to man-

manufacturers, dealers and users. As a further means of reporting, an issue of The Bulletin covering a year's work, as exemplified herewith, is published annually.

The economic poisons law gives control officials certain discretionary authority in dealing with borderline cases. The earnest cooperation of a great majority of manufacturers and dealers has been a valuable asset in the administration of the law.

Cooperative work by staff members of the North Carolina Experiment Station and Extension Service has been mutually beneficial and most helpful. Credit also is due members of the laboratory section for the highly satisfactory manner in which the analytical work has been carried out: H. A. Miller, Assistant State Chemist; Delwin P. Johnson, Henry W. Barnes, Jr., Mrs. Muriel Weathers, Chemists; Miss Pat Barefoot, Miss Jean Mobley, Secretaries; J. W. Davis, Lindsey Ennis, H. C. McPhail, Inspectors; Vernon Williams, Laboratory Helper.

Brief of North Carolina Insecticide Law

Commissioner of Agriculture, Raleigh, North Carolina.

Administrative
Officer

1. The name and address of the guarantor.
2. The brand name or trademark.
3. The net weight or measure.
4. A guaranteed analysis statement showing:
 - a. The name and percentage of each active ingredient.
 - b. The total percentage of inert ingredients.
5. Instructions for use, adequate for the protection of the public.
6. A warning or caution statement adequate to prevent injury.
7. For economic poisons highly toxic to man:
 - a. The skull and crossbones.
 - b. The word "Poison" in red, on distinctly contrasting background.
 - c. An antidote for the poison.
8. When arsenic is present—the percentages of the total and of the water-soluble arsenic separately and as elemental (metallic) arsenic.

Information
Required to
Appear on
Package
Labels

Other General Requirements:

1. Strength and quality must not fall below that professed or claimed.
2. No false or misleading statement, design or other representation is permissible.
3. Imitations are not permitted.
4. Labeling may not refer to registration.
5. Labeling shall be legible and understandable.
6. Claims or directions for use may not deviate in substance, or composition vary, from representations made on registering.
7. Economic poisons must be sold in the registrant's or manufacturer's original package. If repackaged for sale, it loses its original identity and qualifies as a new product. As such it is subject to registration and all other provisions of the law. Responsibility rests on the repackaging agent.

General
Requirements

8. Economic poisons in powdered form of white or light color require distinct further coloring for safety.

| | |
|---|--|
| Registration | Each brand and grade of economic poisons must be registered prior to sale (application forms are furnished by the department), subject to renewal annually, January 1st. Duplication of registration by secondary sellers is not required. |
| | Application must be accompanied by full information (see package labeling above), including specimen of labeling, all claims, and, if called for, certain additional data when necessary in qualifying the product. |
| Inspection Tax | An annual inspection tax of \$10.00 for each brand and each grade is required. |
| Method of Paying | Inspection tax must accompany application for registration, payable to the North Carolina Department of Agriculture. |
| Refusal or Cancellation of Registration | Registration is subject to refusal or cancellation for cause and upon hearing. |
| Stop-Sale Orders | Goods not measuring up to requirements are subject to Stop-Sale Orders. |
| Short Weight | Short weight, in addition to above, is subject to penalty. |

Exempt From Penalties of Law Are:

| | |
|------------|---|
| Exemptions | 1. Carriers engaged in legal transporting. |
| | 2. Public official while performing official duties. |
| | 3. Manufacturers and shippers of products properly identified for experimental use only. |
| | 4. Persons shown to be proceeding in good faith on guarantees and representations given by others. The original guarantor then is liable. |

NOTE: Copies of the economic poisons law may be obtained upon request to the Inspection Division, North Carolina Department of Agriculture, Raleigh, North Carolina.

Pesticide-Fertilizer Mixtures

Regulations under the fertilizer law now permit certain insecticides to be mixed with fertilizers. These are: Technical chlordane, aldrin, dieldrin, heptachlor, toxaphene and DDT. There is continued interest in these mixtures for combatting soil-borne pests, and to date 15 brands have been registered for sale.

Experience with such mixtures is slowly developing. The practical and economic advantages of putting both pesticides and fertilizer into the soil in a single operation are obvious. There are, however, certain disadvantages and dangers which must be taken into account, such as restricted applicability, the possibility of misuse, incompatibility and short life of some pesticides when mixed with fertilizers, the danger of toxic levels of pesticides being built up in the soil, development of off-flavor and bad odors, particularly in root crops, and the danger of translocation of poisons from soils to plants, then to animals and to man.

It is obvious that the recommendations for use of pesticide-fertilizer mixtures in the soil pose many critical problems. These should not function to restrict sound progress. However, they do dictate a conservative policy, subject to expansion or modification from time to time as additional basic facts are available. The policy which has been followed and the line of thinking on which it is based are indicated in the commitments which follow.

Recommendation by the N. C. Agricultural Experiment Station, Raleigh, N. C., December 14, 1948:

"Because of the lack of sufficient information on these problems and in order to prevent possible damage or loss of money to either the farmer or the fertilizer producer, it is recommended that the Commissioner of Agriculture should not accept for registration and subsequent sales any mixture of insecticides and fertilizer. Experimental use of such mixtures under proper supervision and direction is to be encouraged so that information may be obtained to solve the problems involved in the use of such mixtures."

Resolution by the Association of Economic Poisons Control Officials, Annual Conference, Washington, D. C., October 6, 1951; endorsed by the Experiment Station Section, Association of Land Grant Colleges and Universities, Houston, Texas, Meeting, November 13, 1951:

"In view of the immediate and possible long lasting effects of the application or misapplication of pesticides, be it resolved, that the Economic Poisons Control Officials do not register, permit the sale or distribution of pesticide-fertilizer mixtures, for field crops or horticultural use unless such mixtures have been formally approved by the officials of the Agricultural Experiment Station or other officials vested with such responsibility by law in their State."

Letter to fertilizer dealers, by L. Y. Ballentine, Commissioner of Agriculture, May 16, 1950:

"To Fertilizer Manufacturers and Dealers selling fertilizer in North Carolina

"In order that the future of the peanut industry in North Carolina not be jeopardized by improper insect control practices, your attention is called to the following:

- "1. Experiments conducted by the North Carolina Agricultural Experiment Station have shown that a disagreeable taste and odor have resulted from the use of Benzene Hexachloride to control insects attacking peanuts.
 - "2. The residue of Benzene Hexachloride used on cotton for boll weevil control may be sufficient to produce unfavorable effects on peanuts grown in the rotation.
 - "3. Representatives of the North Carolina Agricultural Experiment Station, Extension Service, and State Department of Agriculture have recently conferred on this subject. The group considers Benzene Hexachloride, the technical grade or the purified form known as lindane, unsafe for insecticidal treatment for peanuts. This is in agreement with conclusions reached by a similar group from Virginia who met a few days ago. It is also in accord with a recent resolution passed by the Virginia-Carolina Peanut Association.
 - "4. On cotton grown in rotation with peanuts, recommended materials other than BHC should be used.
 - "5. As new information on this program is developed, the recommendations may be modified. We will keep you advised of any significant findings on this important subject.
- "We solicit the cooperation of the fertilizer industry on this important problem affecting our peanut growers."

REGULATIONS

(From Chapter VIII of Rules, Regulations, Definitions and Standards of the North Carolina Department of Agriculture)

§8-36.1. Insecticides In Fertilizers. The inclusion of technical chlordane, aldrin, dieldrin, heptachlor or toxaphene in fertilizers offered for sale in North Carolina is permitted under the following conditions:

(a) All manufacturers, formulating and offering for sale in North Carolina fertilizers containing the insecticides technical chlordane, aldrin, dieldrin, heptachlor or toxaphene, shall register such brands or mixtures with the North Carolina Department of Agriculture.

(b) Each bag of fertilizer must bear a Red tag, size 3¼ inches by 6¼ inches, with the following information printed thereon:

CAUTION

This fertilizer contains.....pounds of (name of insecticide) per 100 pounds of fertilizer.

NOTICE—IMPORTANT—NOTICE

Experiments and surveys have shown that this insecticide when applied with fertilizer at planting time may give some control of wireworms and/or southern corn rootworms and/or white fringed beetle. It does not effectively control the corn billbug. In experimental work insecticide-fertilizer mixtures have been applied immediately after mixing. The effect of the combination on the insecticide or on the fertilizer components, if left to stand, is not known.

Odor, off flavor, stunting of crops and other damage may result from the use of organic insecticides in this manner.

§8-36.2 DDT in Fertilizers.

(1) All manufacturers formulating and offering for sale in North Carolina fertilizers containing the insecticide DDT shall register such brands or mixtures with the North Carolina Department of Agriculture.

(2) Each bag of fertilizer containing DDT must bear a RED tag, size $3\frac{1}{8} \times 6\frac{1}{4}$ inches, with the following information printed thereon:

CAUTION

This fertilizer contains.....pounds of technical DDT per 100 pounds of fertilizer.

Fertilizer mixtures containing not more than $\frac{1}{2}$ or 1 pound of technical DDT per 100 pounds of fertilizer are recommended for use only where the white fringed beetle is present and only on specific advice of a Federal or State entomologist. DDT or fertilizer containing DDT should not be used on the soil after a maximum of 15 pounds of DDT per acre has been applied.

The North Carolina Agricultural Experiment Station makes no general recommendation for the inclusion of insecticides in fertilizers. Indiscriminate use of certain insecticides may cause stunting of crops, off-flavors and odors, or other damage.

(Adopted June 20, 1951; Amended June 17, 1952 and June 22, 1953.)

(Authority: G. S. 106-50.15.)

Economic Poisons Registrants, 1955

ACME FERTILIZER COMPANY
Box 330
Wilmington, North Carolina

ACME QUALITY PAINTS, INC.
8250 St. Aubin
Detroit 11, Michigan

ADCO, INCORPORATED
900 W. Main Street
Sedalia, Missouri

AERO-SANITATION COMPANY
325 W. Pacific Avenue
St. Louis 19, Missouri

AGRICULTURAL SPECIALTIES
10219 Denton Drive
Dallas 20, Texas

AIRKEM, INCORPORATED
241 East 44th Street
New York 17, New York

AIROSOL COMPANY, INC.
525 N. 11th Street
Neodesha, Kansas

ALCATRAZ COMPANY, INC.
1900 Ellen Road
Box 5146
Richmond 20, Virginia

ALFORD HOME PRODUCTS
Box 595
Middlesex, North Carolina

ALLEN-CROWL COMPANY
1559 Allentown Road
P. O. Box 627
Lima, Ohio

ALLIED CHEMICAL & DYE CORP.
Barrett Division
40 Rector Street
New York 6, New York

ALLIED CHEMICAL & DYE CORP.
General Chemical Division
40 Rector Street
New York 6, New York

ALLIED CHEMICAL & DYE CORP.
Solvay Process Division
Box 271
Syracuse 1, New York

ALLIED DRUG PRODUCTS CO.
16th and Pierce Streets
Chattanooga 1, Tennessee

ALUMINUM COMPANY OF AMERICA
3300 Missouri Avenue
East St. Louis, Illinois

AMERICAN AGRICULTURAL
CHEMICAL COMPANY
50 Church Street
New York 7, New York

AMERICAN CHEMICAL PAINT CO.
Ambler
Pennsylvania

AMERICAN CYANAMID COMPANY
30 Rockefeller Plaza
New York 20, New York

AMERICAN OIL COMPANY
American Building
Baltimore and South Streets
Baltimore 2, Maryland

AMERICAN SCIENTIFIC LABORATORIES, INC.
Box 232
Madison 1, Wisconsin

ANDERSON & SPILMAN
Box 255
Danville, Kentucky

ANTARA CHEMICALS
(A Sales Division of General Aniline
& Film Corp.)
435 Hudson Street
New York 14, New York

A-PENN OIL COMPANY
808 Butler Savings & Trust Bldg.
Butler, Pennsylvania

APEX CHEMICAL COMPANY
Box 146
Apex, North Carolina

ARMOUR AND COMPANY —
SOAP DIVISION
1355 West 31st Street
Chicago 9, Illinois

ARVEY CORPORATION
(Velsicol Division)
330 East Grand Avenue
Chicago 11, Illinois

ASSOCIATED SEED GROWERS, INC.
15 Main Street
Cambridge, New York

ATHENS INSECTICIDE CO., INC.
Athens
Tennessee

ATLA CHEMICAL COMPANY, INC.
Box 1761
415 South Spring Street
Greensboro, North Carolina

ATLAS CHEMICAL CORPORATION
Box 169
Waynesboro, Georgia

BARKER, MOORE & MEIN COMPANY
541 N. Orianna Street
Philadelphia 23, Pennsylvania

BAUER & BLACK
Division of the Kendall Co.
2500 S. Dearborn Street
Chicago 16, Illinois

BERK, F. W. & COMPANY, INC.
Park Place, East
Wood Ridge, New Jersey

BERLOU MANUFACTURING CO.
421 Monroe Street
Marion, Ohio

BEST EXTERMINATING
SERVICE, INC.
Box 631
Durham, North Carolina

- BLACK PANTHER COMPANY, INC.
Box 132
Sanford, North Carolina
- BLUE BALL CHEMICAL COMPANY
2506 Kuhl Avenue
Orlando, Florida
- BLITZ PRODUCTS, INC.
945 West George Street
Chicago 14, Illinois
- BOHLENDER PLANT CHEMICALS, INC.
Tipp City
Ohio
- BONIDE CHEMICAL COMPANY
332 North Genesee Street
Utica 4, New York
- BONNIE GREEN PRODUCTS CO.
Front and Bainbridge Streets
Philadelphia 47, Pennsylvania
- BOYER CHEMICAL COMPANY
2232 South Wabash Avenue
Chicago 16, Illinois
- BOYLE-MIDWAY, INCORPORATED
22 East 40th Street
New York 16, New York
- BRIDGEPORT BRASS COMPANY
30 Grand Street
Bridgeport 2, Connecticut
- BUG-A-ROO, INCORPORATED
2711 Commerce Street
Dallas, Texas
- BURRELL-DUGGER COMPANY
366 South Meridian Street
Indianapolis, Indiana
- C-B DRUG COMPANY
2219 Freedom Drive
Charlotte 8, North Carolina
- CALIFORNIA SPRAY-CHEMICAL CORP.
Lucas and Ortho Way
Richmond, California
- CAPE FEAR CHEMICALS, INC.
Box 543
Elizabethtown, North Carolina
- CARAJON CHEMICAL CO., INC.
Box 167
Fremont, Michigan
- CARBOLA CHEMICAL CO., INC.
Natural Bridge
New York
- CARBOLINEUM WOOD PRESERVING COMPANY
528 W. Highland Avenue
Milwaukee 3, Wisconsin
- CAROLINA CHEMICALS, INC.
Box 128
West Columbia, South Carolina
- CAROLINA FEED STORE
279 East Main Street
Gastonia, North Carolina
- CARROLL CHEMICAL CO., THE
2301 Hollins Street
Baltimore 23, Maryland
- CARTER INSECTICIDE & CHEMICAL COMPANY, INC.
Wallace
North Carolina
- CEDAR HILL FORMULAE CO., THE
234 Steele Street
Box 1129
New Britain, Connecticut
- CENTRAL CHEMICAL CORP.
49 North Jonathan Street
Hagerstown, Maryland
- CERASEAL CHEMICAL CORP.
P. O. Box 214
Chicago Heights, Illinois
- CHAMBERS-GODFREY MANUFACTURING COMPANY
302-04 Broadway
Martin, Tennessee
- CHAPMAN CHEMICAL COMPANY
Box 3158
Mallory Station
Memphis 9, Tennessee
- CHAPMAN, M. A. & SON
Box 691
Canton, North Carolina
- CHEMAGRO CORPORATION
101 Park Avenue
New York 17, New York
- CHEMICAL FORMULATORS, INC.
Box 26
Nitro, West Virginia
- CHEMLEY PRODUCTS COMPANY
14 East Jackson Boulevard
Chicago 4, Illinois
- CHESTER CHEMICAL CORP.
2732 6th Avenue, South
St. Petersburg, Florida
- CHIPMAN CHEMICAL CO., INC.
Bound Brook
New Jersey
- CLARKE & PROCTOR TURPENTINE CO., INC.
317 Worth Street
Fayetteville, North Carolina
- CLEAN HOME PRODUCTS, INC.
507 North Cardinal Street
St. Louis 3, Missouri
- CLEARY CORPORATION, W. A.
P. O. Box 749
New Brunswick, New Jersey
- CLINTON WHOLESALE COMPANY
213 Railroad Street
Clinton, North Carolina
- COASTAL CHEMICAL CORP.
Box 627
Greenville, North Carolina
- COLGATE-PALMOLIVE COMPANY
105 Hudson Street
Jersey City 2, New Jersey

- COLONIAL CHEMICAL COMPANY
6207 Georgia Avenue
Box 6325
West Palm Beach, Florida
- COLONIAL STORES, INC.
P. O. Box 4358
Atlanta 2, Georgia
- COMMON SENSE MANUFACTURING COMPANY, INC.
1392 Niagara Street
Buffalo 13, New York
- CONNECTICUT CHEMICAL RESEARCH CORPORATION
706 Bostwick Avenue
Bridgeport 5, Connecticut
- COOK CHEMICAL COMPANY
2500 Summit Street
Kansas City, Missouri
- COOPER, WILLIAM & NEPHEWS, INC.
1909 North Clifton Avenue
Chicago 14, Illinois
- COPPO COMPANY, INC., THE
2342 South Lauderdale
Memphis, Tennessee
- CORONA CHEMICAL DIVISION
Pittsburgh Plate Glass Company
New Albany Road
Moorestown, New Jersey
- COWLEY, S. L. & SONS MANUFACTURING COMPANY
708 West McAlester Street
Hugo, Oklahoma
- CRE-O-TOX CHEMICAL PRODUCTS COMPANY
2670 Broad Avenue
Memphis, Tennessee
- CRISP, S. A. CANINE COMPANY
Blackburg
South Carolina
- CURRAN, FRANK J. COMPANY
8101 South Main Street
Downers Grove, Illinois
- D & A COMPANY, INC.
52 Remer Street
Bridgeport 6, Connecticut
- DALY-HERRING COMPANY
Adkin and University Streets
Box 237
Kinston, North Carolina
- CUPRINOL DIVISION
DARWORTH INCORPORATED
South Hopmeadow Street
Simsbury, Connecticut
- DAVISON CHEMICAL COMPANY
Division of W. R. Grace & Co.
P. O. Box 180
Wilmington, North Carolina
- DAVIS MANUFACTURING COMPANY, INC.
115 W. Jackson Avenue
Knoxville, Tennessee
- d-CON COMPANY, INC., THE
112 East Walton Street
Chicago 11, Illinois
- DEAM CORPORATION, THE
41 Beale Avenue
Memphis, Tennessee
- DE-BUG-ER, INCORPORATED
205 North Bassett Street
Madison, Wisconsin
- DE PREE COMPANY, THE
130 Central Avenue
Holland, Michigan
- DeSOTO CHEMICAL COMPANY, INC.
North DeSoto Avenue
Arcadia, Florida
- DILL COMPANY, THE
Washington Street & McKinley Avenue
Norristown, Pennsylvania
- DIOPTRON COMPANY
Box 1313
Milwaukee 1, Wisconsin
- DIXIE-HOME STORES
P. O. Box 840
Greenville, South Carolina
- DOLGE COMPANY, C. B.
Ferry Lane, West
Westport, Connecticut
- DONALDSON COMPANY, INC.
666 Pelham Boulevard
St. Paul 14, Minnesota
- DONCO INCORPORATED
1150 West Hampden
Englewood, Colorado
- DOUGLAS CHEMICAL CO., THE
Box 5012
Richmond, Virginia
- DOUGLAS CHEMICAL COMPANY
620 East 16th Street
North Kansas City 16, Missouri
- DOW CHEMICAL COMPANY, THE
Midland
Michigan
- DRUGMASTER, INC.
4200 North Union Boulevard
St. Louis 15, Missouri
- DUNAWAY CORPORATION, JUDSON
Third and Grove
Dover, New Hampshire
- du PONT de NEMOURS & CO., E. I.
Wilmington 98
Delaware
- EAGLE PRODUCTS COMPANY
Box 162
Chattanooga, Tennessee
- ECKERD DRUGS, INC.
128 North Tryon Street
Charlotte, North Carolina
- ECONOMICS LABORATORY, INC.
914 Guarandian Building
Saint Paul 1, Minnesota
- EDWARDS-COUNCILOR CO., INC.
121 Colley Avenue
Norfolk 10, Virginia
- ELECTROLUX CORPORATION
500 Fifth Avenue
New York 36, New York

ELLIS LABORATORIES, INC.
1843 Cheshire Bridge Road, N. E.
Atlanta, Georgia

EMERY INDUSTRIES, INC.
4200 Carew Tower
Cincinnati 2, Ohio

ESSO STANDARD OIL COMPANY
15 West 51st Street
New York 19, New York

FAIRFIELD CHEMICAL DIVISION
Food Machinery & Chemical Corp.
Box 1616
Baltimore 3, Maryland

FARM SERVICE COMPANY
Highway No. 301 South
Box 70
Wilson, North Carolina

FARMERS COOPERATIVE
EXCHANGE, INC.
P. O. Box 1069
Statesville, North Carolina

FARMERS INSECTICIDE CO., INC.
Rose Hill
North Carolina

FLORIDA AGRICULTURAL
SUPPLY COMPANY
1611 Talleyrand Avenue
Jacksonville 1, Florida

FLORIDA CHEMICAL INDUS-
TRIES, INC.
Route 1, Box 130-C
Gainesville, Florida

FOLEY & COMPANY
945 West George Street
Chicago 14, Illinois

FREEWAX CORPORATION
Box 148
Tallahassee, Florida

FRENCH COMPANY, THE R. T.
1 Mustard Street
Rochester 9, New York

FUCO CHEMICAL COMPANY
402 North Serivan Street
Live Oak, Florida

GALLOWHUR CHEMICAL CORP.
North Water Street
Ossining, New York

GARDEN HOSE SPRAY CO., INC.
7 Upland Road
Cambridge 40, Massachusetts

GASTON JOHNSTON CORP.
24-64 45th Street
Long Island City 3, New York

GEIGY AGRICULTURAL CHEMICALS
89 Barclay Street
New York 8, New York

GENERAL INSECTICIDE CO., INC.
752 Herkimer Road
Utica, New York

GEORGIA-CAROLINA OIL CO.
1403 Sixth Street
Box 101
Macon, Georgia

GETEM MANUFACTURING CO., INC.
1261 West 42nd Street
Norfolk 8, Virginia

GIRARD COMPANY, INC.,
THE FELIX
2013 Fourth Avenue, South
Minneapolis 4, Minnesota

GLAND-O-LAC COMPANY, THE
Box 1178
1818 Leavenworth Street
Omaha 1, Nebraska

GLIDDEN COMPANY, THE
11001 Madison Avenue
Cleveland 2, Ohio

GLOBE LABORATORIES
116 Commerce Street
Fort Worth 2, Texas

GLOVER COMPANY, INC., H. CLAY
60 Hempstead Avenue
West Hempstead
Long Island, New York

GOODRICH CHEMICAL CO., B. F.
2060 East Ninth Street
Cleveland 15, Ohio

GOULARD & OLENA, INC.
Skillman
New Jersey

GOWEN COMPANY, INC., HOWERTON
Box 247
Roanoke Rapids, North Carolina

GRAHAM CHEMICAL COMPANY
Box 54
Greensboro, North Carolina

GRANT COMPANY
2735 North Ashland Avenue
Chicago 14, Illinois

GREEVER'S, INC.
Chilhowie
Virginia

GRISSMER COMPANY, EARL
Box 5992
Indianapolis, Indiana

GROWERS & PRODUCERS EX-
CHANGE, INC.
Box 1020
Roanoke, Virginia

GULF OIL CORPORATION
Box 1166
Pittsburgh 30, Pennsylvania

HAMMOND PAINT & CHEMICAL CO.
29 Farnsworth Street
Boston 10, Massachusetts

HAPPY JACK, INC.
Box 325
Snow Hill, North Carolina

HARMON PRODUCTS COMPANY
616 East Fourth Street
Gastonia, North Carolina

HARRIS & COMPANY, INC., J. M.
Box 411
Roanoke, Virginia

- HARRIS MANUFACTURING CO., P. F.
101 West 8th Street
North Little Rock, Arkansas
- HARRIS PRODUCTS COMPANY, INC.
Box 4
Miami Beach 39, Florida
- HELLER LABORATORIES, INC.
Calumet Avenue and 40th Street
Chicago 15, Illinois
- HESS & CLARK, INC., DR.
7th and Orange Street
Ashland, Ohio
- HILL MANUFACTURING COMPANY
1500 Jonesboro Road, S. E.
Atlanta, Georgia
- HILLO COMPANY, THE
Box 246
Norwalk, Connecticut
- HOLCOMB MANUFACTURING
COMPANY, J. I.
1601 Barth Avenue
Indianapolis 7, Indiana
- HOME & GARDEN PRODUCTS CO.
520 South Delaware Avenue
Philadelphia 47, Pennsylvania
- HOME MANUFACTURING AND
SALES COMPANY
800 South Downing Street
Piqua, Ohio
- HOPKINS AGRICULTURAL
CHEMICAL COMPANY
740 Williamson Street
Box 584
Madison, Wisconsin
- HOUSE OF HUSTON, INC.
4135 Laguna
Coral Gables, Miami, Florida
- HOUSTON COMPANY, SAM
Box 662
Talladega, Alabama
- HUNTINGTON LABORATORIES, INC.
900-970 East Tipton Street
Huntington, Indiana
- H. G. HUTSON & SONS
P. O. Box 2190
Atlanta, Georgia
- HUTTIG SASH & DOOR COMPANY
1206 South Vandeventer Avenue
St. Louis 10, Missouri
- HYDROPONIC CHEMICAL CO., INC.
Copley
Ohio
- HYDROTEX INDUSTRIES
Box 2400
Dallas, Texas
- INSECT CONTROL SALES AND
SERVICE
P. O. Box 152
Candor, North Carolina
- INSECTICIDE PRODUCTS COMPANY
39-09 192nd Street
Flushing 50, New York
- IRWIN-WILLERT COMPANY
4044 Park Avenue
St. Louis 10, Missouri
- IVO, INC.
Box 247
West Bend, Wisconsin
- JARRETT COMPANY, INC., CECIL H.
P. O. Box 69
Newton, North Carolina
- JDS LABORATORIES
7 East Second Avenue
Rome, Georgia
- JOHNSON COTTON COMPANY, INC.
Dunn
North Carolina
- JONES PRODUCTS COMPANY, INC.
25 North Charter Street
Madison 5, Wisconsin
- KING CHEMICAL COMPANY
2342 South Lauderdale Street
Memphis, Tennessee
- KIRBY CHEMICAL COMPANY, INC.
Severn
North Carolina
- KISSNER INDUSTRIES, INC.
5130 Minocqua Crest
Madison 5, Wisconsin
- KNAPP-MONARCH COMPANY
3501 Bent Avenue
St. Louis 16, Missouri
- KOLKER CHEMICAL CORPORATION
600 Doremus Avenue
Newark 5, New Jersey
- KOPPERS COMPANY, INC.
Tar Products Division
430 Park Avenue
New York 22, New York
- LARVACIDE PRODUCTS, INC.
117 Liberty Street
New York 6, New York
- LA SALLE CHEMICAL COMPANY
3601 South Racine Avenue
Chicago 9, Illinois
- LEBANON CHEMICAL CORP.
Box 532
Lebanon, Pennsylvania
- LEDERLE LABORATORIES
DIVISION
American Cyanamid Company
Middletown Road
Pearl River, New York
- LeGEAR MEDICINE CO., DR. L. D.
4161 Beck Avenue
St. Louis 16, Missouri
- LETHELIN PRODUCTS CO., INC.
15 MacQuesten Parkway, South
Mount Vernon, New York
- LINCK COMPANY, INC., O. E.
Route 46 and Valley Road
Clifton, New Jersey
- LINDAVAP, INCORPORATED
Box 638
635 South Main Street
Ann Arbor, Michigan

- LUCAS PRODUCTS CORPORATION
3839 Seiss Avenue
Toledo, Ohio
- McCLELLAN LABORATORIES
CORP., C. U.
321 West Redondo Beach Blvd.
Gardena, California
- McCORMICK & COMPANY, INC.
McCormick Building
Baltimore 2, Maryland
- McKESSON & ROBBINS, INC.
Box 548
Bridgeport, Connecticut
- McLAUGHLIN GORMLEY KING CO.
1715 Fifth Street, S. E.
Minneapolis 14, Minnesota
- MABEX COMPANY, THE
Umbria and Lemonte Streets
Philadelphia 27, Pennsylvania
- MAHAFFEY COMPANY
P. O. Box 3145
Greenville, South Carolina
- MAINTENANCE SUPPLY CO., INC.
Box 283
Huntersville, North Carolina
- MALLINCKRODT CHEMICAL WORKS
72 Gold Street
New York 8, New York
- MAXWELL INSECTICIDE CO., INC.
Box 5627
Raleigh, North Carolina
- MERCK & COMPANY, INC.
Rahway
New Jersey
- MICHIGAN CHEMICAL CORP.
500 North Bankson
St. Louis, Michigan
- MIDLAND LABORATORIES
210-220 Jones
Dubuque, Iowa
- MIKE, INC.
Box 92
Newland, North Carolina
- MILLER COMPANY, B. E.
Box 127
Hancock, Maryland
- MILLER CHEMICAL AND FER-
TILIZER CORPORATION
2226 North Howard Street
Baltimore 18, Maryland
- MILLER PRODUCTS COMPANY
115 North Meramec
St. Louis 5, Missouri
- MOLONY FERTILIZER COMPANY
P. O. Box 314
Charleston, South Carolina
- MONARCH SUPPLY, INC.
2438 West Lincoln Avenue
Milwaukee 15, Wisconsin
- MONSANTO CHEMICAL COMPANY
1700 South Second Street
St. Louis 4, Missouri
- MOORMAN MANUFACTURING CO.
Quincy
Illinois
- MOTOMCO, INCORPORATED
10 Murray Street
New York 7, New York
- MURRAY COMPANY, EDGAR A.
1 Willow Brook Road
Clinton Corners, New York
- MUTUAL PRODUCTS COMPANY
509 North Fourth Street
Minneapolis 1, Minnesota
- NATIONAL JAYGOL DISTRIBU-
TORS, INC.
293-24th Street
Brooklyn 32, New York
- NIAGARA CHEMICAL DIVISION
Food Machinery & Chemical Corp.
1200 Talleyrand Ave.
Jacksonville, Florida
- NIP-CO MANUFACTURING INC.
Box 388
Mount Vernon, New York
- NOTT MANUFACTURING CO., INC.
14-18 North Second Avenue
Mount Vernon, New York
- NOWLAND COMPANY,
THE GEORGE H.
2833 Spring Grove Avenue
Cincinnati 25, Ohio
- NUDEX PRODUCTS COMPANY, INC.
c/o Cornelius Zabriskie, Esq.
120 West 42nd Street
New York 36, New York
- NUZON SOUTHERN CORPORATION
P. O. Box 846
Tallahassee, Florida
- NYAL COMPANY, INCORPORATED
511 East 72nd Street
New York 21, New York
- OLIN MATHIESON CHEMICAL CORP.
Mathieson Building
Baltimore 3, Maryland
- ONE-SPOT COMPANY
Jessup
Maryland
- OPITZ, INC., JOHN
50-14 39th Street
Long Island City 4, New York
- ORB INDUSTRIES
1016 East Montgomery Avenue
Philadelphia 25, Pennsylvania
- PACIFIC COAST BORAX COMPANY
Division of Borax Consolidated, Ltd.
630 Shatto Place
Los Angeles 5, California
- PANOGEN, INCORPORATED
R. ngwood
Illinois
- PANTHER OIL & GREASE MANU-
FACTURING COMPANY
Box Seven Eleven
Fort Worth, Texas

- PAPER PRODUCTS, INCORPORATED
4423 Fruitland Avenue
Los Angeles 58, California
- PARKE, DAVIS & COMPANY
Joseph Campau at the River
Detroit 32, Michigan
- PEARSON & COMPANY
Box 431
Mobile, Alabama
- PEE DEE CHEMICALS, INC.
Railroad Avenue
Kingstree, South Carolina
- PEELE COMPANY, INC., W. R.
516 South Salisbury Street
Raleigh, North Carolina
- PENICK & COMPANY, S. B.
50 Church Street
New York 8, New York
- PENN-CHAMP OIL CORPORATION
808 Butler Savings Building
Butler, Pennsylvania
- PENNSYLVANIA ENGINEERING CO.
1119-21 North Howard Street
Philadelphia 23, Pennsylvania
- PENNSYLVANIA SALT MANUFACTURING COMPANY
Three Penn Center Plaza
Philadelphia 2, Pennsylvania
- PER-MO PRODUCTS COMPANY
1715 East 36th Street
Kansas City, Missouri
- PETPAK PRODUCTS COMPANY
5151 North 32 Street
Milwaukee 9, Wisconsin
- PET CHEMICALS, INC.
3101 South West 38th Court
Miami, Florida
- PFELFFER COMPANY, THE
3965 Laclede Avenue
St. Louis 8, Missouri
- PFIZER & COMPANY, INC., CHAS.
11 Bartlett Street
Brooklyn 6, New York
- PHELPS DODGE REFINING CORP.
300 Park Avenue
New York 22, New York
- PILOT PRODUCTS COMPANY
124 Main Street, West
Pilot Mountain, North Carolina
- PIONEER MANUFACTURING COMPANY, THE
3053 East 87th Street
Cleveland, Ohio
- PITTSBURGH COKE & CHEMICAL COMPANY
Agricultural Chemicals Division
Box 1645
Pittsburgh 30, Pennsylvania
- PITTSBURGH PLATE GLASS CO.
One Gateway Center
Pittsburgh 22, Pennsylvania
- PLANTERS CHEMICAL CORP.
3111 Broad Creek Road
Norfolk 12, Virginia
- POLK MILLER PRODUCTS CORP.
2007 North Hamilton Street
Richmond, Virginia
- PRATT COMPANY, B. G.
204 21st Avenue
Paterson, New Jersey
- PRATT FOOD COMPANY
25 Industrial Road
Hammond, Indiana
- PRENTISS DRUG AND CHEMICAL COMPANY, INC.
110 William Street
New York 38, New York
- PROTECTION PRODUCTS MANUFACTURING COMPANY
2305 Superior Avenue
Kalamazoo, Michigan
- PUREPAC CORPORATION
511 East 72nd Street
New York 21, New York
- PUREX CORPORATION, LTD.
9300 Rayo Avenue
South Gate, California
- QUALITY CHEMICAL CORP.
Memorial Avenue
Greenville, North Carolina
- RAISTON PURINA COMPANY
835 South Eighth Street
St. Louis, Missouri
- RAT BISCUIT COMPANY, THE
AND/OR K-R-O COMPANY
19½ North Limestone Street
Springfield, Ohio
- RAT LUNCHES COMPANY
1407 Ogden Street
Denver 18, Colorado
- RAWLEIGH COMPANY, THE W. T.
223-225 East Main Street
Freeport, Illinois
- REARDON LABORATORIES, INCORPORATED, W. G.
330 North Main Street
Port Chester, New York
- REEFER-GALLER, INC.
225 Fifth Avenue
New York 10, New York
- REILLY TAR & CHEMICAL CORP.
1615 Merchant Bank Building
Indianapolis 4, Indiana
- RENARD COMPANY
38 West 26th Street
New York 10, New York
- REX CHEMICAL COMPANY, INC.
1205 Kent Road
P. O. Box 9551
Raleigh, North Carolina
- REX RESEARCH CORPORATION
600 Montrose Avenue
Toledo 7, Ohio

REXALL DRUG COMPANY
8480 Beverly Boulevard
Los Angeles 54, California

RIGO MANUFACTURING CO., INC.
Box 1188, 638 Benton Avenue
Nashville, Tennessee

ROCON, INC.
1650 11th Street
Denver 4, Colorado

RODENT CONTROL FUND,
N. C. STATE COLLEGE
P. O. Box 5577, State College Station
Raleigh, North Carolina

ROHM & HAAS COMPANY
222 West Washington Square
Philadelphia 5, Pennsylvania

ROKEBY CHEMICAL COMPANY
2nd Street at St. Clari
Marietta, Ohio

ROSE MANUFACTURING COMPANY
445 Main Street
Beacon, New York

ROTENONE PRODUCTS COMPANY
110 Eaton Place
East Orange, New Jersey

RUST-OLEUM CORPORATION
2425 Oakton Street
Evanston, Illinois

SALISBURY'S LABORATORIES, DR.
500 Gilbert Street
Charles City, Iowa

SAYMAN PRODUCTS COMPANY
2101 Locust Street
St. Louis 3, Missouri

SCOTT INDUSTRIES
311 Belevue
Jackson, Tennessee

SCOTT & SONS COMPANY, O. M.
Marysville, Ohio

SEACOAST LABORATORIES, INC.
156 Perry Street
New York 14, New York

SEARS, ROEBUCK & COMPANY
925 South Homan Avenue
Chicago 7, Illinois

SENORET CHEMICAL COMPANY
610 Gratiot Street
St. Louis 2, Missouri

SEXTON & COMPANY, JOHN
10 Chestnut Street
Philadelphia 5, Pennsylvania

SHELL CHEMICAL CORPORATION
460 Park Avenue
New York 22, New York

SHELL OIL COMPANY
50 West 50th Street
New York 20, New York

SHUPTRINE COMPANY
Box 644
Savannah, Georgia

SINCLAIR REFINING COMPANY
Box 1710
Atlanta, Georgia

SINGLETERY, JR. & COMPANY, F. B.
208 South Washington Street
Rocky Mount, North Carolina

SINTOS COMPANY, INC., THE
220 East 21st Street
New York 10, New York

SMITH CHEMICAL COMPANY, E. W.
3498 Union Pacific Avenue
Los Angeles 23, California

SMITH SEED & FEED COMPANY
315 Lynn Street
Danville, Virginia

SMITH SPECIALTIES COMPANY, T. W.
P. O. Box 5146
1101 Dade Street
Charlotte, North Carolina

SOCONY-MOBIL OIL COMPANY, INC.
26 Broadway
New York 4, New York

SOUTHERN AGRICULTURAL
CHEMICALS, INC.
Box 238
Kingstree, South Carolina

SOUTHERN AGRICULTURAL IN-
SECTICIDES, INC.
Box 1130
Hendersonville, North Carolina

SOUTHERN CHEMICAL COMPANY
Box 249
Hendersonville, N. C.

SOUTHERN PEST CONTROL
COMPANY, INC.
P. O. Box 1603
Charlotte, North Carolina

SOUTHERN PRODUCTS COMPANY,
INC.
1105 Chestnut Street
Chattanooga, Tennessee

SPINDLE CITY CHEMICAL CO.
P. O. Box 88
Canton, North Carolina

SPIRITTINE CHEMICAL CO.
Box 233
Wilmington, N. C.

SPRAY, INCORPORATED
218 North 15th Street
East Orange, New Jersey

STANDARD AGRICULTURAL
CHEMICALS, INC.
1301 Jefferson Street
Hoboken, New Jersey

STANDARD LABORATORIES, INC.
113 West 18th Street
New York 11, New York

STANDARD NAPHTHALENE
PRODUCTS COMPANY, INC.
115 Jacobus Avenue
South Kearny, New Jersey

STAUFFER CHEMICAL COMPANY
Box 97
Apopka, Florida

- STEARNS' ELECTRIC PASTE CO.
111 West Washington Street
Chicago 2, Illinois
- STERLING COMPANY, INC., THE
2801-05 Locust Street
St. Louis 3, Missouri
- STERWIN CHEMICALS, INC.
1450 Broadway
New York 18, New York
- STEVENS INDUSTRIES, INC.
Box 272
Dawson, Georgia
- STRICKLAND & COMPANY, J.
1400 Ragan, Box 2841
Memphis, Tennessee
- STULL'S CHEMICALS, INC.
3400 Nacogdoches Road
P. O. Box 6722
San Antonio, Texas
- SUN OIL COMPANY
1608 Walnut Street
Philadelphia 3, Pennsylvania
- SUWANNEE DRUG COMPANY
Newberry
Florida
- SWEENEY MFGR., W. R.
Salisbury
Missouri
- SWIFT & COMPANY
Plant Food Division
Box 210
Wilmington, N. C.
- TANCK, INC., RAY H.
Middleton
Wisconsin
- TAYLOR CHEMICAL COMPANY
Aberdeen
North Carolina
- TAYLOR-REED CORPORATION
Glenbrook
Connecticut
- TENNESSEE COPPER COMPANY
Copperhill
Tennessee
- TENNESSEE CORPORATION
617-29 Grant Building
Atlanta 1, Georgia
- TENNESSEE PRODUCTS &
CHEMICAL CORP.
500 First Amer. Nat'l Bank Bldg.
Nashville, Tennessee
- TERRELL MOTHPROOF INSTITUTE
2 West Columbia Street
Springfield, Ohio
- TESCO CHEMICALS, INC.
1575 Northside Drive, N. W.
Atlanta, Georgia
- TEXIZE CHEMICALS, INC.
Box 1820
Greenville, South Carolina
- THOMPSON-HAYWARD CHEMICAL
COMPANY
2915 Southwest Boulevard
Kansas City 8, Missouri
- TOXITE LABORATORIES, INC.
Cumberland
Indiana
- T. & R. CHEMICAL COMPANY
P. O. Box 336
Fuquay Springs, North Carolina
- UNION CARBIDE AND CARBON
CORPORATION
30 East 42nd Street
New York 17, New York
- U. S. RUBBER COMPANY
1230 Avenue of the Americas
New York 20, New York
- UNIVERSAL ELECTRIC PRODUCTS
CORPORATION
4200 South Mendota Street
Madison, Wisconsin
- VACCINOL CHEMICAL COMPANY
Box 3205-2487 Penn.
Memphis, Tennessee
- VAN BRODE MILLING CO., INC.
20 Cameron Street
Clinton, Massachusetts
- VANDERBILT COMPANY, INC. R. T.
230 Park Avenue
New York 17, New York
- VAPORETTE, INC.
823 Merchantile Bank Building
Dallas 1, Texas
- VESTAL LABORATORIES, INC.
4963 Manchester
St. Louis 10, Missouri
- VIRGINIA-CAROLINA CHEMICAL
CORPORATION
401 East Main Street
Richmond, Virginia
- VIRGINIA-CAROLINA CHEMICAL
CORPORATION
(Black Leaf Products Division)
401 East Main Street
Richmond, Virginia
- VIRGINIA SMELTING COMPANY
West Norfolk
Virginia
- WALGREEN COMPANY
4300 Peterson Avenue
Chicago 30, Illinois
- WALKER REMEDY COMPANY
224-228 Commercial
Waterloo, Iowa
- WALLACE HARDWARE CO., INC.
9-13 North Cumberland Street
Morristown, Tennessee
- WATKINS COMPANY, THE J. R.
150 Liberty Street
Winona, Minnesota
- WAYNE WHOLESALE GROCERY CO.
North James Extension
117 By-Pass
Goldsboro, North Carolina

WEEVIL-CIDE COMPANY, THE
1323 Union Avenue
Kansas City 1, Missouri

WELLS & COMPANY, INC., S. C.
1-3 Church Street
LeRoy, New York

WEST DISINFECTING COMPANY
42-16 West Street
Long Island City 1, New York

WESTCHESTER VETERINARY
PRODUCTS
Division of Eastco, Inc.
180 Mamaroneck Avenue
White Plains, New York

WESTON PRODUCTS COMPANY
330 West Salisbury Street
Asheboro, North Carolina

WESTVACO CHEMICAL DIVISION
Food Machinery and Chemical Corp.
161 East 42nd Street
New York 17, New York

WHITMIRE RESEARCH
LABORATORIES, INC.
339 South Vandeventer Avenue
St. Louis 10, Missouri

WHITMOYER LABORATORIES, INC.
19 North Railroad Street
Myerstown, Pennsylvania

WILSON, INC., ANDREW
Baltusrol Way
Springfield, New Jersey

WINRU CHEMICAL & SALES CO.
923 State Line
Kansas City 1, Missouri

WOODLETS, INC.
2048 Niagara Street
Buffalo 7, New York

WOOLFOLK CHEMICAL WORKS, LTD.
East Main Street
Fort Valley, Georgia

WORRELL-CONSOLIDATED
LABORATORIES
1470 South Vandeventer Avenue
St. Louis 10, Missouri

WYATT & SONS COMPANY, JOB P.
327 South Wilmington Street
Raleigh, North Carolina

WYETH LABORATORIES
Division of Amer. Home Prod. Corp.
P. O. Box 8299
Philadelphia 1, Pennsylvania

ZONITE PRODUCTS CORPORATION
500 Jersey Avenue
New Brunswick, New Jersey

N. C. Aerial Crop-Dusting Law and Regulations

The North Carolina Aerial Crop-Dusting Law, enacted by the General Assembly of 1953, has passed through its third year of enforcement. Its purposes are to protect public health and welfare, to bring improved order in the aerial dusting industry and to eliminate practices which were not in the best interest of the industry or those whom it serves. Marked progress has been made, but there is much yet to be accomplished. The North Carolina Aerial Applicators Association and other members of the industry who sponsored the law and cooperate in its enforcement are requesting and supporting more complete enforcement. Every effort within the limits of the facilities available is being extended to that end.

The law and the regulations promulgated thereunder, in summary, require the registration and licensing of those who engage in the custom application of pesticides by aircraft in this state. Qualification for license requires adequate knowledge of the proper use and application of pesticides, the dangers involved and precautions necessary in their application.

Annual renewal of all licenses is required. The validity of any license is further restricted to the period of time that coverage by liability bond or insurance for damage by aircraft is in force. The minimum liability coverage is \$5,000.00 for property damage, \$10,000.00 for personal injury, and \$20,000.00 for any one accident.

Licenses are of two types: Contractors—who contract for the airplane application of pesticides; and Applicators or aviators—those who do the application work. An individual, upon qualification, may procure both licenses. Applicator's licenses, among other things, are contingent on Civil Aeronautics Authority certificates and waiver for low flying.

Licenses may be suspended or revoked if licensees are no longer qualified, for fraudulent, faulty, careless or negligent operations, or for other failure to comply with the requirements of the law. They are automatically nullified upon cancellation or expiration of liability coverage.

The law and regulations are given in the succeeding pages.

N. C. AERIAL CROP-DUSTING LAW CHAPTER 106, N. C. GENERAL STATUTES.

Article 4B, Aircraft Application of Pesticides

§106-65.13. Definitions. For the purposes of this Article:

a. The term "pesticide" or "economic poison" means any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any insects, rodents, fungi, bacteria, weeds, or other forms of plant or animal life or viruses, except viruses on or in living man or other animals, which the commissioner shall declare to be a pest.

b. The term "insecticide" means any substance or mixture of sub-

stances intended for preventing, destroying, repelling, or mitigating any insects which may be present in any environment whatsoever.

c. The term "fungicide" means any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating fungi or plant disease.

d. The term "herbicide" means any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any weed.

e. The term "insect" means any of the numerous small invertebrate animals generally having the body more or less obviously segmented, for the most part belonging to the class Insecta, comprising six-legged, usually winged forms, as, for example but not limited to, beetles, bugs, bees, and flies, and to other allied classes of arthropods whose members are wingless and usually have more than six legs, as, for example, but not limited to, spiders, mites, ticks, centipedes, and wood lice.

f. The term "fungi" means all non-chlorophyll-bearing thallophytes (that is, all non-chlorophyll-bearing plants of a lower order than mosses and liverworts), as, for example, but not limited to, rusts, smuts, mildews, molds, yeasts, and bacteria, except those on or in living man or other animals.

g. The term "weed" means any plant or plant part which grows where not wanted.

h. The term "person" means any individual, firm, partnership, association, corporation, company, joint stock association, or body politic, or any organized group of persons whether incorporated or not; and includes any trustee, receiver, assignee, or other similar representative thereof.

i. The term "Commissioner" means the Commissioner of Agriculture.

j. The term "Board of Agriculture" means the North Carolina Board of Agriculture.

k. The term "custom application of pesticides" means any application of pesticides by aircraft.

l. The term "aircraft" means any contrivance now known or hereafter invented, used or designed for navigation of, or flight in, the air.

§106-65.14. Licenses.

a. It shall be unlawful for any person to engage in custom application of pesticides within this State at any time without a license issued by the Commissioner. Application for a license shall be made to the Commissioner and each application shall contain information regarding the applicant's qualifications and proposed operations and such other relevant matters as may be required pursuant to regulations promulgated by the Board of Agriculture.

b. The Commissioner may require the applicant to show, upon examination, that he possesses adequate knowledge concerning the proper use and application of pesticides, and the dangers involved and precautions to be taken in connection with their application. If the applicant is other than an individual, the applicant shall designate an officer, member, or

technician of the organization to take the examination, such designee to be subject to the approval of the Commissioner. If the extent of the applicant's operations warrant it, the Commissioner may require more than one officer, member or technician to take the examination.

c. If the Commissioner finds the applicant qualified, the Commissioner shall issue a license, which shall authorize the licensee to perform custom application of pesticides within this State. The license may restrict the applicant to the use of a certain type or types of materials if the Commissioner finds that the applicant is qualified to use only such type or types. If a license is not issued as applied for, the Commissioner shall inform the applicant in writing of the reasons therefor. All licenses issued under this Article shall expire on December 31 of each year and may be renewed upon the filing of a new application therefor.

d. The Commissioner may suspend, pending inquiry, for not longer than ten days, after opportunity for a hearing, may revoke, or modify the provisions of any license issued under this section, if he finds as a fact that the licensee is no longer qualified or has engaged in fraudulent business practices in the custom application of pesticides, or has made any custom application in a faulty, careless, or negligent manner, or has violated any of the provisions of this Article or regulations made thereunder.

e. The Commissioner may require, under such rules and regulations as may be promulgated under this Article, from each applicant a liability bond against damage to person or property by aircraft and a reasonable performance bond with sufficient surety satisfactory to the Commissioner, which performance bond is to secure the performance of contractual obligations of the licensee with respect to custom application of pesticides. Any person injured by the breach of any such obligation or any person damaged by such aircraft shall be entitled to sue on the bond in his own name in any court of competent jurisdiction to recover the damages he may have sustained.

f. Any person aggrieved by any action of the Commissioner may within ten days after notice thereof request a review of said action by the Board of Agriculture. If no request for review is so made, the decision of the Commissioner shall be final. If a review is so requested, the Board of Agriculture shall promptly review the action of the Commissioner and either affirm or over-rule his action. If the Board of Agriculture affirms the Commissioner, it shall find the facts of the case and the aggrieved person may within thirty days after notice thereof appeal to the Superior Court of the county in which such person resides or to the Superior Court of Wake County and the matter may be heard in or out of chambers. Notice of the appeal shall be served on the Commissioner and within ten days thereafter the Commissioner shall certify and file in the court to which the appeal is taken a transcript of any record pertaining thereto, including a transcript of evidence received. The court shall have jurisdiction to affirm, set aside or modify the action of the Board of Agriculture, **provided**, that the findings of fact as made by said Board, if supported by evidence, shall be conclusive.

Any license which has been suspended or revoked by the Commissioner or Board of Agriculture shall remain suspended or revoked until the laws, and regulations of the Board of Agriculture, have been complied with or until the decision or action of said Commissioner or Board has been set aside by court action.

§106-65.15. Regulations, Materials and Methods of Application.—The Board of Agriculture, after public hearing, may adopt regulations prohibiting the use of materials or methods in custom application of pesticides to the extent necessary to protect health or property and may make such other regulations as it may deem necessary to carry out the provisions of this Article. **Provided, however,** such regulations shall not be inconsistent with regulations issued by this State or by the Federal Government respecting safety in air navigation or operation of aircraft and before issuing any regulations directly related to any matter within the jurisdiction of any other official of this State, the Commissioner shall consult with that official with reference thereto.

§106-65.16. Reports.—The Board of Agriculture may by regulation require any licensee to maintain records and furnish reports giving information with respect to particular applications of pesticides and such other relevant information as the Board of Agriculture may deem necessary.

§106-65.17. Information.—The Commissioner may, in cooperation with the North Carolina Agricultural Experiment Station, publish information regarding injury which may result from improper application or handling of pesticides and the methods and precautions designed to prevent such injury.

§106-65.18. Penalties.—Any person violating the provisions of this Article or the regulations issued hereunder shall be guilty of a misdemeanor and upon conviction shall be fined or imprisoned or both in the discretion of the court.

§106-65.19. Enforcement.—For the purpose of carrying out the provisions of this Act the Commissioner may enter upon any public or private premises at reasonable times in order to have access for the purpose of inspecting any aircraft or materials subject to this Article.

§106-65.20. Delegation of Duties.—The functions vested in the Commissioner by this Article may be delegated by him to such employees of the Department of Agriculture or other qualified persons as the Commissioner may from time to time designate for such purposes.

§106-65.21. Cooperation.—The Commissioner may cooperate with any other agency of this State or its sub-divisions or with any agency of any other State or of the Federal Government for the purpose of carrying out the provisions of this Article and of securing uniformity of regulations.

§106-65.22. Separability. —If any provision of this Act is declared unconstitutional, or the applicability thereof to any person or circumstance is held invalid, by a court of competent jurisdiction, the constitutionality of the remainder of the Act and the applicability thereof to other persons and circumstances shall not be affected thereby.

RULES, REGULATIONS, DEFINITIONS AND STANDARDS

CHAPTER XII

Application of Pesticides By Aircraft

ARTICLE 1. APPLICATION OF PESTICIDES BY AIRCRAFT

§12-1. Application for License.—Application for a license to engage in the custom application of pesticides by aircraft shall be made to the Commissioner of Agriculture upon forms prescribed for that purpose and furnished by the Department of Agriculture.

§12-2. Classes of Licenses.—There shall be two classes of licenses which shall authorize the holders thereof to engage in the custom application of pesticides to the extent authorized by the license and the rules and regulations of the State Board of Agriculture. The classes of licenses shall be as follows:

(a) Contractor's license. A contractor's license shall authorize the holder thereof to contract for the aerial application of pesticides.

(b) Airplane Applicator's License. An airplane applicator's license shall entitle the holder thereof to apply pesticides as contracted for by the holder of an operator's license.

§12-3. Examination for License.—Before any license is issued, the Commissioner may require the applicant to undergo such examination and to submit such other information as the Commissioner in his discretion may deem necessary for a proper determination of the applicant's qualifications.

§12-4. Modification, Revocation or Suspension of License.—All licenses are subject to modification as to terms and privileges and may be revoked or suspended by the Commissioner of Agriculture according to the provisions of G.S. 106-65.14. Licenses may be issued for periods of less than one year but all licenses shall expire on December 31 of each year and may be renewed upon the filing of a new application therefor.

§12-5. Display of License.—All holders of contractor's or airplane applicator's licenses shall keep their licenses conspicuously posted at their place of business or about their person when engaged in the application of pesticides by aircraft and shall show their license upon request. Upon satisfactory proof of the loss or destruction of a license, a duplicate thereof may be issued to the qualified holder.

§12-6. Liability Bond.—No airplane applicator's license shall be issued unless the applicant submits to the Commissioner of Agriculture along with the application for license a liability insurance policy covering said applicant and the person or persons for whom the custom application of pesticides is to be made against liability for damage to all persons or property caused by said aircraft. Said liability insurance policy shall cover at least \$5,000.00 for property damage, \$10,000.00 for personal injury, and \$20,000.00 for any one accident; and shall be required to be in force for the duration of the applicant's license: Provided, however, it is not the intent of this regulation for any liability insurance policy to cover

damages resulting from the application of pesticides, but only for damages caused by aircraft.

§12-7. Report and Records.—Each contractor shall maintain daily reports and records on forms satisfactory to the Commissioner and all such reports and records shall be kept open and available for inspection by any authorized representative of the Department of Agriculture. Each Contractor shall also submit to the Commissioner of Agriculture on or before December 31 of each year an annual report on forms furnished by the Commissioner, covering in detail the contractor's activities for the period covered by the report.

§12-8. Responsibility of Contractors and Applicators.—All contractors and applicators shall be responsible for the proper use and maintenance of equipment and for the proper use and application of pesticides; and shall at all times use due care for the protection of surrounding property, crops, fish ponds, plants and livestock. Any contractor or applicator who violates or disregards the provisions of this regulation or who makes any custom application in faulty, careless, or negligent manner shall have his license suspended or revoked according to the provisions of G.S. 106-65.14.

(Adopted: June 22, 1953)

(Authority: G. S. 106-65.15)

Licensees under N. C. Aerial Crop-Dusting Law for 1955

This list gives the names of firms or individuals who registered with the North Carolina Department of Agriculture and were issued licenses as Contractors, Applicators, or both, for the year 1955. Each type of license is indicated in connection with the respective name of individual or firm as given in the list.

All licenses expired December 31, 1955, or earlier according to expiration of insurance coverage and are subject to renewal for operations in 1956.

ABERDEEN SUPPLY COMPANY, INC.
Aberdeen, North Carolina
Contractor

DAVID A. ACREE
Hobgood, North Carolina
Weirwood, Virginia
Applicator

AERO DUST & SPRAY SERVICE
Box 191
Richlands, North Carolina
Contractor

LOUIS G. ANDERSON
Aero Spray Service
General Delivery
Fountain, North Carolina
Box 394, Willow Springs, Missouri
Contractor

WILLIAM L. ARAVE
c/o Farmers Supply House
P. O. Box 1127
New Bern, North Carolina
Applicator

JACK ARMSTRONG
P. O. Box 1231
New Bern, North Carolina
Applicator

W. H. BAGGETT
Baggett Dusting Service
General Delivery
Fuquay-Varina, North Carolina
Fl. Pierce, Florida
Applicator and Contractor

JOSEPH NORMAN BAGWELL
Fletcher, North Carolina
Applicator

JOE K. BALL, JR.
Confederate Dusting & Spraying Service
Louisburg, North Carolina
Applicator and Contractor

C. W. BARCLAY
Scotland Neck, North Carolina
Eastville, Virginia
Applicator and Contractor

LLOYD H. BARNWELL
Barnwell Flying Service
Myrtle Airport
Selma, North Carolina
Box 221, Douglas, Georgia
Applicator and Contractor

PAUL BATEMAN
P. O. Box 207
Candor, North Carolina
Applicator

L. W. BRAY, Owner
Farmers Supply House
504-506 South Front Street
New Bern, North Carolina
Contractor

L. P. BROADFIELD
Rocky Mount Air Service
P. O. Box 471
Rocky Mount, North Carolina
Contractor

PERRY E. BROWN
Bateman & Brown Flying Service
322 East 10th Street
Washington, North Carolina
Applicator and Contractor

HALBERT E. CAMPBELL
c/o Clinton Flying Service
Clinton, North Carolina
Applicator

GEORGE W. CARR
Carr Flying & Dusting Service
Box 31
Lumberton, North Carolina
Applicator and Contractor

R. W. CARR
c/o Aero Dust & Spray Service
Richlands, North Carolina
Applicator

OSCAR B. CASE
Case Dusting Service
55 Flat Rock Avenue
Hendersonville, North Carolina
Applicator and Contractor

L. R. CASHION, JR.
Troutman, North Carolina
Applicator

JAMES RICHARD CHERRY
Cherry Flying Service
Pemberton, New Jersey
Applicator and Contractor

H. H. CHRISTOPHER
H. H. Christopher Dusting Service
Raeford, North Carolina
Box 716, Okeechobee, Florida
Applicator and Contractor

GEORGE H. COLONNA, JR.
Hobgood, North Carolina
Weirwood, Virginia
Applicator

JOE COUCH
P. O. Box 266
Ahoskie, North Carolina
Applicator

ALFRED C. CRAICHY
808 Grove Street
Danville, Virginia
Applicator

CALVIN L. CRUSE
Calvin Cruse Airplane Crop Dusting &
Spraying Company
P. O. Box 802
Davidson, North Carolina
Applicator and Contractor

HENRY F. CUMMINGS
P. O. Box 22
Washington, North Carolina
Tulsa, Oklahoma
Applicator

G. W. DABBS
Hillsboro, North Carolina
Applicator

RAY W. DANIELS
124 Chestnut Street
Danville, Virginia
Applicator

JAMES L. DeHAVEN
P. O. Box 266
Ahoskie, North Carolina
515 West 1st, Coffeyville, Kansas
Applicator

FRANK C. DENTON
209 Wells Drive
Hendersonville, North Carolina
Applicator and Contractor

H. A. DOZIER, JR.
c/o Farmers Supply House
New Bern, North Carolina
5842 Camellia Drive
Orlando, Florida
Applicator

EASTERN SHORE FLYING SERVICE
c/o Bradley Milling Company
Hobgood, North Carolina
Kellam Field, Wierwood, Virginia
Contractor

ERNEST EMMELL EUBANK
55 Flat Rock Avenue
Hendersonville, North Carolina
Applicator

PATRICK L. FATTORUSO
Raleigh, North Carolina
Box 1014, Municipal Airport
Danville, Virginia
Applicator

G. M. FLEETWOOD
Halifax County Airport
Roanoke Rapids, North Carolina
Jackson, North Carolina
Contractor

DOVER FOGLEMAN
Alamance Aviation Service, Inc.
Box 1331
Burlington, North Carolina
Applicator and Contractor

W. A. FORBES
Box 94
Winterville, North Carolina
Contractor

T. A. FOUNTAIN
c/o Aero Dust & Spray Service
Richlands, North Carolina
Applicator

FOUNTAIN'S AERIAL SPRAY SERVICE
Route 1
Chinquapin, North Carolina
Contractor

G. N. FUNKHOUSER, SR.
P. O. Box 303
Waverly, Virginia
Boykins, Virginia
Applicator

G. NELSON FUNKHOUSER, JR.
P. O. Box 303
Waverly, Virginia
Route 2, Bridgeville, Pa.
Applicator

W. T. GIBSON, JR.
c/o Farmers Supply House
New Bern, North Carolina
Orlando, Florida
Applicator

FRANK GLEASON
Gleason Flying Service
Nichols, South Carolina
Applicator and Contractor

R. O. GODLEY
Greenville Aviation, Inc.
P. O. Box 524
Greenville, North Carolina
Contractor

SHERMAN W. HANKE
Air Du-Ay
Laurinburg, North Carolina
Box 29, Summerfield, Florida
Applicator and Contractor

W. SHERMAN HART
Route 1, Box 414
Roanoke Rapids, North Carolina
Applicator

EUGENE HATCHELL
P. O. Box 207
Candor, North Carolina
c/o Smith Motel
Greenville, North Carolina
Applicator

JOSH L. HAZELTON
Route 2
Winterville, North Carolina
Applicator

GENE L. HICKMAN
Hickman's Flying & Dusting Service
Route 1
Bladenboro, North Carolina
Applicator and Contractor

JOHN JENSEN HILL, JR.
P. O. Box 471
Rocky Mount, North Carolina
Ahoskie, North Carolina
Applicator

MARTIN HODGES
c/o Aero Dust & Spray Service
Richlands, North Carolina
Applicator

COURTLAND JAY HOUSER
c/o Aero Dust & Spray Service
Richlands, North Carolina
Applicator

J. B. HOWELL, JR.
c/o Stancil Flying Service
General Delivery
Washington, North Carolina
Applicator

DAVID MERLE HUBER
P. O. Box 386
Wilson, North Carolina
Applicator

JERNIGAN SPRAY SERVICE
P. O. Box 266
Ahoskie, North Carolina
Contractor

JOSH JORDAN
Candor, North Carolina
Applicator and Contractor

LEO LEUENBERGER
322 East 10th Street
Washington, North Carolina
Applicator

L & F AERIAL SPRAY SERVICE
Route 1
Chinquapin, North Carolina
Contractor

CARL T. LOVE
611 Peele Street
Burlington, North Carolina
Applicator

JACK LOWERS
P. O. Box 293
Clinton, North Carolina
Applicator and Contractor

LLOYD E. LYONS
Route 1, Lake Hills
Pfalltown, North Carolina
Winston-Salem, North Carolina
Applicator

S. G. LYSNE
Indian River Flying Service, Inc.
General Delivery
Kinston, North Carolina
2341 Vero Beach Avenue
Vero Beach, Florida
Applicator and Contractor

MAC'S SPRAY SERVICE, INC.
1408 N. Green Street
Greenville, North Carolina
Tarboro Airport, Tarboro, N. C.
Contractor

LELAND S. McMAHON
Route 2
Reidsville, North Carolina
Applicator and Contractor

S. S. MILLER
1012 Walnut Street
Reidsville, North Carolina
Applicator

LUTHER G. MIMS
c/o Rockfellow Venters
Hookerton, North Carolina
Route 2, Box 629
Ft. Pierce, Florida
Applicator

CLARENCE T. MODLIN
Scotland Flying Service, Inc.
Laurinburg, North Carolina
Applicator and Contractor

KENNETH E. MORRIS
Route 1
Chinquapin, North Carolina
Johnson City, Tennessee
Applicator

MAX MULLIS
Max Mullis Dusting & Spraying Company
Farmville, North Carolina
Box 457, York, South Carolina
Applicator and Contractor

JAMES W. MURPHY
General Delivery
Angier, North Carolina
Buffalo 21, New York
Applicator

JAMES A. NAYLOR
P. O. Box 63
Clinton, North Carolina
Applicator

R. A. NAYLOR
Clinton Flying Service
P. O. Box 63
Clinton, North Carolina
Applicator and Contractor

JOHN W. NEWMAN
Route 3
Mooresville, North Carolina
Applicator and Contractor

NEIL F. OLESON
Box 392
Greenville, North Carolina
Applicator and Contractor

DELMAR C. OWENS
Owens Crop Dusting Service
Route 3
Hertford, North Carolina
Applicator and Contractor

ARCHER PASCHAL, JR.
Paschal Aviation Company
419 Crestland Avenue
Greensboro, North Carolina
Sanford, North Carolina
Applicator and Contractor

DILLARD M. POWELL
Route 2
Ruffin, North Carolina
Applicator and Contractor

FREDERICK M. POWELL
Route 4
Zebulon, North Carolina
Belle Glade, Florida
Applicator

BUDD E. REAM
Box 471
Rocky Mount, North Carolina
Applicator

GERALD L. "JERRY"
RENKENBERGER
516 W. Main Street
Elizabeth City, North Carolina
Salem, Ohio
Applicator

HUGH E. REYNOLDS
Hugh Reynolds Airplane Dusting &
Spraying
Box 119
Candor, North Carolina
Applicator and Contractor

L. F. JACK REYNOLDS
P. O. Box 207
Candor, North Carolina
Applicator and Contractor

LEWIS CARROLL ROACH
Colerain, North Carolina
Axton, Virginia
Applicator

J. H. ROBERSON
Box 291
Robersonville, North Carolina
Contractor

DOUGLAS E. ROBEY
Route 1
Chinquapin, North Carolina
Phoebe, Virginia
Applicator

MILTON M. RODDY
P. O. Box 471
Rocky Mount, North Carolina
Applicator

CLIFFORD H. ROGERS
Box 191
Richlands, North Carolina
Applicator

THEODORE E. ROMAN
Route 1
Angier, North Carolina
Box 581, Belle Glade, Florida
Applicator and Contractor

W. S. ROWE, JR.
Rowe Flying Service
Bennettsville, South Carolina
Applicator and Contractor

WILSIE A. RYAN
Box 191
Richlands, North Carolina
Applicator

WILLIAM SCOTT
Box 191
Richlands, North Carolina
Applicator

ROBERT JACK SHELTON
c/o Danville Flying Service, Inc.
Danville, Virginia
Route 1, Ringold, Virginia
Applicator

STANLEY M. SHERWEN
114 South Road Street
Elizabeth City, North Carolina
Applicator

NATHAN M. SIMPSON
Route 1, Box 370
Brown Summit, North Carolina
Applicator and Contractor

GUY MERLE SMITH
Richlands, North Carolina
Applicator

JOSEPH J. SMITH
Joe Smith Aerial Spraying
Roxboro, North Carolina
P. O. Box 1014
Danville, Virginia
Applicator and Contractor

RICHARD D. SMITH
Chinquapin, North Carolina
Rolla, Missouri
Applicator

THOMAS E. STANCIL, JR.
Stancil Flying Service
General Delivery
Washington, North Carolina
Applicator and Contractor

DOCK STARNES
Route 1
Lowrys, South Carolina
Applicator

RHONDA L. STORY
Pamlico Flying Service
New Bern, N. C. (Bayboro)
Applicator and Contractor

ABRAHAM N. STRONG
c/o Aero Dust & Spray Service
Richlands, North Carolina
Applicator

STANLEY S. SVRLINGA
General Delivery
Laurinburg, North Carolina
Box 421, Zellwood, Florida
Applicator and Contractor

EDWARD L. TREAT
Treat's Dusting Service
General Delivery
Angier, North Carolina
1609 Citrus Avenue
Ft. Pierce, Florida
Applicator and Contractor

WENDELL K. TROGDON
Wendell Trodgon Airplane Dusting &
Spraying
Route 4
Greensboro, North Carolina
Applicator and Contractor

B. W. TRUEBLOOD
Box 471
Rocky Mount, North Carolina
Applicator

JOSEPH C. TURNER
600 Colonial Avenue
Elizabeth City, North Carolina
Newport News, Virginia
Applicator

ROBERT J. TURNER, JR.
543 Rowland Street
Henderson, North Carolina
Applicator and Contractor

W. D. TURNER
437 Hickory Street
Henderson, North Carolina
Applicator

GEORGE D. WALTERS
516 W. Main Street
P. O. Box 84
Elizabeth City, North Carolina
Applicator and Contractor

H. C. WARF

Warf Flying Service
Route 6
Reidsville, North Carolina
Applicator and Contractor

WAVERLY FLYING SERVICE

Waverly Municipal Airport
Waverly, Virginia
Contractor

AMOS MONROE WENTE

Box 1231
New Bern, North Carolina
Applicator

FRED WHITFIELD

Box 1331
Burlington, North Carolina
Applicator

ROBERT O. WHITFIELD

Whitfield Spraying Service
Hurdle Mills, North Carolina
Applicator and Contractor

KENNETH WHITTAKER

c/o Columbus Hotel
Whiteville, North Carolina
Applicator

JOHN H. WHITTINGTON

c/o Max Mullis
Box 457
York, South Carolina
Dillon, South Carolina
Applicator

DANIEL B. WILDER

Box 207
Candor, North Carolina
St. Albans, Vermont
Applicator

WALTER E. WILLFORD

P. O. Box 508
Greenville, North Carolina
Pocatello, Idaho
Applicator

DAN LOUIS WILLIAMS

Madison, North Carolina
Applicator

FRANK E. WILSON

Tarboro, North Carolina
110-W. 50th Street
Hialeah, Florida
Applicator and Contractor

HAROLD S. WILLIAMS

c/o Baggett Dusting Service
Fuquay Springs, North Carolina
Ft. Pierce, Florida
Applicator

J. B. WILLIAMS

P. O. Box 471
Rocky Mount, North Carolina
Applicator

J. C. WILSON

General Delivery
Whiteville, North Carolina
Mooresville, North Carolina
Applicator

Official Analyses of Economic Poisons 1955

Summary of Economic Poisons Examined — 1955

| Types | S A M P L E S | | | | |
|--|---------------|----------------|------------------|-----------------|---------------------|
| | Number | De- ficient | Adul- terated | Mis- branded | Not Reg- istered |
| Arsenicals | | | | | |
| Arsenic Trioxide | 14 | 5 | --- | 1 | 1 |
| Calcium Arsenate | 1 | --- | --- | --- | --- |
| Copper Arsenate | 1 | --- | --- | --- | --- |
| Lead Arsenate | 10 | --- | --- | --- | --- |
| Sodium Arsenate | 10 | 3 | --- | --- | 3 |
| Paris Green | 2 | --- | --- | --- | --- |
| Arsenic with other materials | 2 | --- | --- | --- | --- |
| Organic Chlorine Compounds | | | | | |
| Aldrin-Aldrin with DDT-Sulfur | 48 | 6 | --- | 6 | 2 |
| Benzene Hexachloride | 22 | --- | --- | --- | --- |
| BHC-DDT-Sulfur Mixtures | 120 | 6 | --- | --- | 1 |
| BHC-DDT with other materials | 16 | 2 | --- | --- | 1 |
| BHC with other materials | 12 | --- | --- | --- | --- |
| Captan | 3 | --- | --- | --- | --- |
| Chlordane preparations | 68 | 9 | --- | --- | 2 |
| 2, 4-D — 2, 4, 5-T | 4 | --- | --- | --- | --- |
| DDD (TDE) preparations | 276 | 8 | 2 | --- | 1 |
| DDT | 92 | 7 | --- | --- | --- |
| DDT with other materials | 43 | 5 | --- | --- | 1 |
| Dieldrin | 1 | --- | --- | --- | --- |
| Dilan | 1 | --- | --- | --- | --- |
| Dipterex | 2 | --- | --- | --- | --- |
| Endrin | 24 | --- | --- | --- | --- |
| Ethylene dichloride—Carbon Tetrachloride | 4 | --- | --- | --- | --- |
| Heptachlor preparations | 6 | --- | --- | --- | --- |
| Methoxychlor preparations | 19 | 1 | --- | 1 | --- |
| 2-Methyl-4-Chlorophenoxyacetic Acid | 1 | --- | --- | --- | --- |
| Paradichlorobenzene | 2 | --- | --- | --- | --- |
| Pentachlorophenol | 1 | --- | --- | --- | --- |
| Phygon | 1 | --- | --- | --- | --- |
| Toxaphene preparations | 201 | 10 | --- | --- | --- |
| Metallic Compounds | | | | | |
| Copper-Copper with other materials | 15 | 1 | --- | --- | --- |
| Malathion preparations | 45 | 7 | --- | --- | 2 |
| Metallic Dithiocarbamates | 85 | 3 | --- | --- | --- |
| Parathion preparations | 21 | 2 | --- | --- | --- |
| Thallium Sulfate | 1 | --- | --- | --- | --- |
| Botanicals | | | | | |
| Nicotine | 4 | --- | --- | --- | --- |
| Pyrethrin preparations | 15 | --- | --- | --- | 1 |
| Rotenone preparations | 176 | 20 | --- | 1 | 1 |
| Sabadilla | 29 | 2 | --- | --- | --- |
| Miscellaneous | | | | | |
| Antu | 2 | --- | --- | --- | 1 |
| Boric Acid preparations | 6 | 1 | --- | --- | --- |
| Diazinon | 2 | --- | --- | --- | --- |
| Fluorine Compounds | 8 | --- | --- | --- | --- |
| Lime Sulfur | 3 | --- | --- | --- | --- |
| Organic Thiocyanates | 1 | --- | --- | --- | --- |
| Petroleum Oils | 1 | --- | --- | --- | --- |
| Phenols-BHC | 18 | 10 | --- | --- | 1 |
| Pine Oil | 8 | --- | --- | 2 | --- |
| Sodium Chlorate | 2 | --- | --- | --- | --- |
| Strychnine | 1 | --- | --- | --- | 1 |
| TEPP | 1 | --- | --- | --- | --- |
| Warfarin | 2 | --- | --- | --- | --- |
| TOTALS | 1453 | 107 | 2 | 11 | 18 |

Number manufacturers registered (total) 359
 Number manufacturers registered from North Carolina 49
 Number items registered 2,730
 Number stop sale orders issued 112

Decisions

The results of analysis of economic poisons are tabulated in the following pages. For the reader's ready interpretation of the analyses, designations used are explained in the following paragraphs.

"Passed" signifies that the labeling and composition of the product satisfactorily complied with guarantees and requirements. Small deviations in analyses are normal.

"Deficient" usually signifies that one or more ingredient fell significantly below guarantee, although it may also indicate an excess of a harmful ingredient, as in case of water-soluble arsenic. Such products, in most instances, qualify as unsatisfactory and are subject to "Stop Sale Order" and removal from the market for reprocessing or relabeling. In borderline cases, where exact values are indeterminate, the product is qualified as deficient but the manufacturer cautioned. In some instances where such goods have been used before analysis could be completed, the manufacturer has made settlement satisfactory to the user.

"Adulterated" indicates that significant quantities of undeclared active ingredients were present. Since proof of adulteration disqualifies a product, analyses may be discontinued at that point thus saving further expenditure of time and work. Such lots, batches or brands are stopped from sale and other appropriate action taken.

"Misbranded" signifies that labeling failed to conform to requirements. Omission of some item or statement is a more common flaw. Among these may be proper ingredient listing; skull and crossbones, "Poison" in red and an antidote where these are required; net contents by weight or volume; class of, and unsulfonated residues of petroleum oils; and percentages of alkaloids instead of crude product such as sabadilla seed.

In some instances of misbranding the defect appeared to be inadvertent or of a minor nature. It appeared permissible and fair to allow the manufacturer time for correction. In others, removal from sale was necessary.

"Not Registered" signifies that the product was not registered at the time it was sampled. Prompt registration is required or the product is removed from sale.

As has been the practice in past work, analyses were made largely for those ingredients which were considered of major importance, as, for example, gamma isomer of benzene hexachloride, whereas other isomers were not checked. For sake of brevity, items not generally checked are not listed in the tabulations. This should not be taken to indicate that manufacturers did not include them on labels. This procedure has been followed because it enables a broader coverage of all products offered for sale.

Official Analyses of Economic Poisons, 1955

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions* |
|--|------------------------|-------------------|----------------|
| ALDRIN | | | |
| Acme Fertilizer Company | | | |
| Acme Aldrin Emulsion | | | |
| Aldrin | 25.20 | 26.78 | Passed |
| California Spray-Chemical Corp. | | | |
| Ortho Aldrin 2.5 Dust | | | |
| Aldrin | 2.50 | 2.34 | Deficient |
| do | 2.50 | 2.71 | Passed |
| Cape Fear Chemicals, Inc. | | | |
| Tiger Brand 2½% Aldrin Equivalent Dust | | | |
| Aldrin | 2.50 | 2.14 | Deficient |
| Geigy Agricultural Chemicals | | | |
| Geigy 2½% Aldrin Equivalent Dust | | | |
| Aldrin | 2.50 | 2.52 | Passed |
| Naco Fertilizer Company (Now: Davison Chemical Company) | | | |
| Naco Aldrin 118 Cotton Dust 2.5-0-0 | | | |
| Aldrin | 2.50 | 2.93 | Not registered |
| Naco Aldrin 118 Cotton Dust 10% | | | |
| Hexachloro Hexahydro Dimethano Naphthalene | 9.50 | 9.16 | Not registered |
| Related compounds | 7.17 | | |
| Olin Mathieson Chemical Corp. | | | |
| Mathieson 10% Aldrin Equivalent Dust | | | |
| Aldrin | 6.00 | 9.88 | Misbranded |
| Aldrin 2 Lb. Emulsifiable Concentrate | | | |
| Hexachloro Hexahydro Dimethano Naphthalene | 23.94 | 23.29 | Passed |
| Related compounds | 4.37 | 4.26 | |
| Taylor Chemical Company | | | |
| Superkill 20% Aldrin Emulsifiable Concentrate | | | |
| Aldrin | 23.40 | 26.49 | Misbranded |
| do | 23.40 | 31.23 | Misbranded |
| do | 23.40 | 32.21 | Misbranded |
| do | 23.40 | 34.33 | Misbranded |

* See preceding page for explanations of "Decisions"

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|-----------|
| Virginia-Carolina Chemical Corp. (Now: Diamond Black Leaf Company) | | | |
| "Black Leaf" 2% Aldrin Dust | | | |
| Aldrin | 2.00 | 1.90 | Passed |
| ALDRIN - DDT | | | |
| Acme Fertilizer Company | | | |
| Acme 2½% Aldrin Equivalent Dust with 5% DDT | | | |
| Aldrin | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 4.47 | 4.73 | |
| Acme 2½% Aldrin with 5% DDT | | | |
| Aldrin | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 4.12 | 4.08 | |
| Acme 2½% Aldrin Equivalent Dust with 10% DDT | | | |
| Aldrin | 2.50 | | Passed |
| DDT | 10.00 | | |
| Theoretical chlorine | 6.97 | 6.63 | |
| Acme Aldrin-DDT Emulsion | | | |
| Aldrin | 11.40 | | Deficient |
| DDT | 23.00 | | |
| Theoretical chlorine | 22.55 | 21.15 | |
| California Spray-Chemical Corp. | | | |
| Ortho Aldrin DDT 2.5-5 Dust | | | |
| Aldrin | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 3.95 | 4.20 | |
| Carolina Chemicals, Inc. | | | |
| Flight Brand Aldrin Equivalent-DDT Dust | | | |
| Aldrin | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 4.47 | 4.34 | |
| Aldrin | 2.50 | | Deficient |
| DDT | 5.00 | | |
| Theoretical chlorine | 4.47 | 4.04 | |
| Farmers Cooperative Exchange, Inc. | | | |
| F.C.X. 2½-5-0 Cotton Dust | | | |
| Aldrin | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 4.47 | 4.25 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|-----------|
| Geigy Agricultural Chemicals | | | |
| Geigy 2½% Aldrin Equivalent 5% DDT Dust | | | |
| Aldrin | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 4.47 | 5.64 | |
| Aldrin | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 4.47 | 4.54 | |
| Johnson Cotton Company, Inc. | | | |
| Southern Quality 2½% Aldrin-5% DDT Dust | | | |
| Aldrin | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 3.95 | 4.20 | |
| Aldrin | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 3.95 | 3.86 | |
| Maxwell Insecticide Company, Inc. | | | |
| Maxwell Insecticides/Aldrin Cotton Dust 2½-5-0 | | | |
| Aldrin | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 4.47 | 4.31 | |
| Naco Fertilizer Company (Now: Davison Chemical Company) | | | |
| Naco Aldrin 118 Cotton Dust 2½-5-0 | | | |
| Aldrin | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 3.95 | 4.14 | |
| Aldrin | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 3.95 | 4.17 | |
| Olin Mathieson Chemical Corp. | | | |
| Mathieson 2.5-5-0 Cotton Dust | | | |
| Aldrin | 2.50 | | Deficient |
| DDT | 5.00 | | |
| Theoretical chlorine | 4.13 | 3.75 | |
| Aldrin | 2.50 | | Deficient |
| DDT | 5.00 | | |
| Theoretical chlorine | 4.13 | 3.63 | |
| Aldrin | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 4.47 | 4.50 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|------------|
| Mathieson 2.5-5-0 Cotton Dust (Continued) | | | |
| Aldrin | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 4.13 | 4.92 | |
| Aldrin | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 4.13 | 4.72 | |
| W. R. Peele Company, Inc. | | | |
| Pelco 2½% Aldrin-5% DDT Dust | | | |
| Aldrin | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 3.95 | 4.11 | |
| Aldrin | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 3.95 | 3.97 | |
| Aldrin | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 3.95 | 4.21 | |
| Aldrin | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 3.95 | 4.21 | |
| Aldrin | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 3.95 | 4.26 | |
| Pennsylvania Salt Manufacturing Company | | | |
| Pennsalt 2½-5-0 Cotton Dust | | | |
| Aldrin | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 4.47 | 4.50 | |
| Planters Chemical Corporation | | | |
| Planters Aldrin-DDT Cotton Dust | | | |
| Aldrin | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 4.13 | 4.44 | |
| Aldrin | 2.50 | | Misbranded |
| DDT | 5.00 | | |
| Theoretical chlorine | 4.47 | 4.03 | |
| Southern Agricultural Chemicals, Inc. | | | |
| Royal Brand 2½% Aldrin Equivalent Dust with 5% DDT | | | |
| Aldrin | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 4.47 | 4.57 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--------------------------|------------------------|-------------------|-----------|
|--------------------------|------------------------|-------------------|-----------|

Taylor Chemical Company

Superkill 2½% Aldrin-5% DDT Dust

| | | | |
|----------------------------|------|------|--------|
| Aldrin | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 3.95 | 4.93 | |

Tobacco By-Products Chemical Corp.
(Now: Diamond Black Leaf Company)

"Black Leaf" 2½-5-0 Dust

| | | | |
|----------------------------|------|------|--------|
| Aldrin | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 4.47 | 4.29 | |
| Aldrin | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 4.47 | 4.60 | |

Woolfolk Chemical Works, Ltd.Security Brand 2½% Aldrin Equivalent with
5% DDT Dust

| | | | |
|----------------------------|------|------|--------|
| Aldrin | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 4.47 | 4.25 | |

ALDRIN - DDT - SULFUR**Acme Fertilizer Company**Acme 2½% Aldrin Equivalent Dust—
5% DDT and 40% Sulfur

| | | | |
|----------------------------|-------|-------|--------|
| Aldrin | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 4.47 | 4.25 | |
| Sulfur | 40.00 | 43.57 | |

ARSENICALS**ARSENIC TRIOXIDE****Carajon Chemical Company, Inc.**

Force's Mold Killer

| | | | |
|------------------------|------|------|--------|
| Arsenic trioxide | 5.00 | 5.04 | Passed |
| do | 5.00 | 5.08 | Passed |

Carter Chemical Company

Carter's Rat Rid

| | | | |
|------------------------|------|------|--------|
| Arsenic trioxide | 2.00 | 2.50 | Passed |
|------------------------|------|------|--------|

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|------------------------------|
| M. A. Chapman & Son | | | |
| Kill-Em Rat Killer | | | |
| Arsenic trioxide | 2.20 | 2.34 | Passed |
| The Corn Nox Products Company | | | |
| Rat Nox Poison | | | |
| Arsenic trioxide | 2.27 | 3.21 | Not registered Misbranded |
| S. L. Cowley & Sons Manufacturing Company | | | |
| Cowley's Rat & Mouse Poison | | | |
| Arsenic trioxide | 1.75 | 2.54 | Passed |
| do | 1.75 | 2.57 | Passed |
| Shuptrine Company | | | |
| Shuco Rat Poison | | | |
| Arsenic trioxide | 2.00 | 1.83 | Deficient |
| F. B. Singletary, Jr. & Company | | | |
| Singletary's Rat & Mouse Exterminator | | | |
| Arsenic trioxide | 3.00 | 3.54 | Passed |
| Singletary's Rat & Mouse Killer | | | |
| Arsenic trioxide | 3.50 | 2.32 | Deficient |
| do | 3.50 | 2.60 | Deficient |
| do | 3.50 | 4.24 | Passed |
| Southern Chemical Company | | | |
| Nok-Out Bam | | | |
| Arsenic trioxide | 3.00 | 2.83 | Deficient |
| do | 3.00 | 2.20 | Deficient |

CALCIUM ARSENATE**E. I. du Pont de Nemours & Company****Du Pont Calcium Arsenate**

| | | | |
|--|-------|-------|--------|
| Calcium arsenate | 69.00 | | Passed |
| Arsenic as metallic | 26.00 | 29.20 | |
| Arsenic—water soluble (not more than)... | 0.45 | 0.14 | |
| Calcium as metallic | 20.84 | 32.00 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions* |
|---|------------------------|-------------------|------------|
| COPPER - ARSENIC | | | |
| Acme Quality Paints, Inc. | | | |
| Acme Tomato Dust | | | |
| Basic copper arsenate | 18.00 | | Passed |
| Arsenic as metallic | 4.80 | 4.97 | |
| Arsenic—water soluble (not more than).... | 0.50 | 0.04 | |
| Copper as metallic | 10.00 | 9.77 | |
| LEAD ARSENATE | | | |
| Acme Quality Paints, Inc. | | | |
| Acme Arsenate of Lead | | | |
| Lead arsenate | 98.00 | | Passed |
| Arsenic as metallic | 20.00 | 22.75 | |
| Arsenic—water soluble (not more than).... | 0.50 | 0.39 | |
| Lead as metallic | 58.00 | 58.00 | |
| California Spray-Chemical Corp. | | | |
| Ortho Standard Lead Arsenate | | | |
| Lead arsenate | 95.00 | | Passed |
| Arsenic as metallic | 20.50 | 20.97 | |
| Arsenic—water soluble (not more than).... | 0.50 | 0.23 | |
| Lead as metallic | 56.70 | 59.03 | |
| E. I. du Pont de Nemours & Company | | | |
| Nu Rexform Lead Arsenate | | | |
| Lead arsenate | 96.00 | | Passed |
| Arsenic as metallic | 19.56 | 23.48 | |
| Arsenic—water soluble (not more than).... | 0.33 | 0.28 | |
| Lead as metallic | 58.00 | 59.48 | |
| Geigy Agricultural Chemicals | | | |
| Geigy Arsenate of Lead | | | |
| Lead arsenate | 98.00 | | Passed |
| Arsenic as metallic | 20.00 | 21.96 | |
| Arsenic—water soluble (not more than).... | 0.50 | 0.29 | |
| Lead as metallic | 58.00 | 58.48 | |
| Lead arsenate | 98.00 | | Passed |
| Arsenic as metallic | 20.00 | 23.11 | |
| Arsenic—water soluble (not more than).... | 0.50 | 0.36 | |
| Lead as metallic | 58.00 | 58.06 | |
| General Chemical Division | | | |
| Allied Chemical & Dye Corp. | | | |
| Orchard Brand Lead Arsenate | | | |
| Lead arsenate | 97.00 | | Passed |
| Arsenic as metallic | 19.56 | 23.58 | |
| Arsenic—water soluble (not more than).... | 0.25 | 0.23 | |
| Lead as metallic | 58.00 | 59.26 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------------------------|
| Miller Chemical & Fertilizer Corp. | | | |
| Miller Arsenate of Lead | | | |
| Lead arsenate | 97.00 | | Passed |
| Arsenic as metallic | 20.00 | 23.10 | |
| Arsenic—water soluble (not more than).... | 0.50 | 0.03 | |
| Lead as metallic | 58.00 | 59.62 | |
| Woolfolk Chemical Works, Ltd. | | | |
| Security Brand Lead Arsenate | | | |
| Lead arsenate | 98.00 | | Passed |
| Arsenic as metallic | 19.56 | 21.63 | |
| Arsenic—water soluble (not more than).... | 0.33 | 0.22 | |
| Lead as metallic | 58.00 | 58.99 | |
| Lead arsenate | 98.00 | | Passed |
| Arsenic as metallic | 19.56 | 19.02 | |
| Arsenic—water soluble (not more than).... | 0.33 | 0.23 | |
| Lead as metallic | 58.00 | 60.75 | |
| Lead arsenate | 98.00 | | Passed |
| Arsenic as metallic | 19.56 | 19.86 | |
| Arsenic—water soluble (not more than).... | 0.33 | 0.19 | |
| Lead as metallic | 58.00 | 59.12 | |
| SODIUM ARSENATE | | | |
| Atla Chemical Company, Inc. | | | |
| "Atla" Anti-Ant | | | |
| Sodium arsenate | 1.88 | 1.95 | Passed |
| do | 1.88 | 1.27 | Deficient |
| Fatsco | | | |
| Fatsco Ant Poison | | | |
| Sodium arsenate | 3.00 | 2.88 | Not registered |
| Harris Products Company, Inc. | | | |
| Ant Buttons | | | |
| Sodium arsenate | 1.71 | 1.64 | Not registered |
| Ligons Drug Store | | | |
| Ligons Ant Exterminator | | | |
| Sodium arsenate | 15.00 | 3.35 | Not registered Deficient |
| Mahaffey Company | | | |
| Mahaffey's Ant Killer | | | |
| Sodium arsenate | 6.00 | 2.54 | Deficient |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| Senoret Chemical Company | | | |
| Terro Ant Killer | | | |
| Sodium arsenate | 2.27 | 2.23 | Passed |
| do | 2.27 | 2.26 | Passed |
| do | 2.27 | 2.27 | Passed |
| Spindle City Chemical Company | | | |
| Doc Edmond's Rat & Mouse Powder | | | |
| Sodium arsenate | 1.80 | 1.83 | Passed |
| PARIS GREEN | | | |
| Chipman Chemical Company, Inc. | | | |
| Chipman Paris Green | | | |
| Copper acetoarsenite | 91.70 | | Passed |
| Arsenic as metallic | 40.65 | 44.52 | |
| Arsenic—Water soluble (not more than).... | 2.70 | 1.30 | |
| Copper as metallic | 23.00 | 25.33 | |
| Geigy Agricultural Chemicals | | | |
| Geigy Paris Green | | | |
| Copper acetoarsenite | 91.70 | | Passed |
| Arsenic as metallic | 40.65 | 42.91 | |
| Arsenic—Water soluble (not more than).... | 2.65 | 1.17 | |
| Copper as metallic | 23.00 | 24.91 | |
| ARSENIC - SULFUR - ZINC | | | |
| Woolfolk Chemical Works, Ltd. | | | |
| Pan Peach Spray | | | |
| Lead arsenate | 11.50 | | Passed |
| Arsenic as metallic | 2.40 | 2.52 | |
| Arsenic—Water soluble (not more than).... | 0.20 | 0.16 | |
| Sulfur | 34.00 | 33.60 | |
| Zinc | 9.60 | 10.23 | Passed |
| Lead arsenate | 11.50 | | |
| Arsenic as metallic | 2.40 | 2.42 | |
| Arsenic—Water soluble (not more than).... | 0.20 | | |
| Sulfur | 34.00 | 34.50 | |
| Zinc | 9.60 | 9.21 | |
| BENZENE HEXACHLORIDE | | | |
| California Spray-Chemical Corp. | | | |
| Isotox 1 Dust | | | |
| Gamma isomer of BHC | 1.00 | 1.10 | Passed |
| Ortho Gamtox 3 Dust | | | |
| Gamma isomer of BHC | 3.00 | 3.04 | Passed |
| do | 3.00 | 2.87 | Passed |
| do | 3.00 | 3.08 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| Isotox Transplanter Solution | | | |
| Gamma isomer of BHC | 5.00 | 7.43 | Passed |
| do | 5.00 | 7.57 | Passed |
| Ortho BHC Wettable Spray | | | |
| Gamma isomer of BHC | 6.00 | 5.75 | Passed |
| Isotox Lindane Spray Liquid | | | |
| Gamma isomer of BHC | 12.90 | 13.50 | Passed |
| Farmers Cooperative Exchange, Inc. | | | |
| F.C.X. 1% Lindane Dust | | | |
| Gamma isomer of BHC | 1.00 | 1.07 | Passed |
| do | 1.00 | 1.05 | Passed |
| Happy Jack, Inc. | | | |
| Happy Jack Tick, Lice & Flea Powder | | | |
| Gamma isomer of BHC | 1.00 | 1.51 | Passed |
| Dr. L. D. LeGear Medicine Company | | | |
| Dr. LeGear's New Louse Powder | | | |
| Gamma isomer of BHC | 1.00 | 0.95 | Passed |
| do | 1.00 | 0.98 | Passed |
| Maxwell Insecticide Company, Inc. | | | |
| Maxwell Insecticides Tobacco Transplant Liquid | | | |
| Gamma isomer of BHC | 5.00 | 5.08 | Passed |
| Pennsylvania Salt Manufacturing Company | | | |
| Penco Tobacco Transplant Liquid | | | |
| Gamma isomer of BHC | 5.00 | 5.04 | Passed |
| Pennsalt BHC Wettable Base W-12 | | | |
| Gamma isomer of BHC | 12.00 | 11.75 | Passed |
| Rigo Manufacturing Company, Inc. | | | |
| Kill-Ko Lindane Emulsifiable Concentrate | | | |
| Gamma isomer of BHC | 13.00 | 12.72 | Passed |
| do | 13.00 | 12.73 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|---------------------|----------------|-----------|
| Dr. Salsbury's Laboratories | | | |
| Dr. Salsbury's Vapo-Roost | | | |
| Gamma isomer of BHC | 1.30 | 1.23 | Passed |
| do | 1.30 | 1.28 | Passed |
| Tobacco-By-Products & Chemical Corp. (Now: Diamond Black Leaf Company) | | | |
| "Black Leaf" 10% Lindane Spray | | | |
| Gamma isomer of BHC | 10.00 | 11.15 | Passed |
| Whitmoyer Laboratories, Inc. | | | |
| Whitmoyer BHC Roost Paint | | | |
| Gamma isomer of BHC | 1.50 | 1.59 | Passed |
| BHC - ALLETHRIN - ORGANIC THIOCYANATES - PIPERONYL BUTOXIDE | | | |
| Esso Standard Oil Company | | | |
| Flit Insecticide with Lindane | | | |
| Gamma isomer of BHC | 0.10 | 0.10 | Passed |
| Allethrin | 0.06 | Present | |
| Alliphatic thiocyanates | 0.30 | Present | |
| Isobornyl thiocanoacetate | 0.41 | Present | |
| Piperonyl butoxide | 0.20 | 0.20 | |
| Gamma isomer of BHC | 0.10 | 0.13 | Passed |
| Allethrin | 0.06 | Present | |
| Alliphatic thiocyanates | 0.30 | Present | |
| Isobornyl thiocanoacetate | 0.41 | Present | |
| Piperonyl butoxide | 0.20 | 0.20 | |
| BHC - CAPTAN | | | |
| California Spray-Chemical Corp. | | | |
| Isotox 25 Seed Treater (f) | | | |
| Gamma isomer of BHC | 25.00 | 24.96 | Passed |
| Captan | 12.50 | 13.01 | |
| Gamma isomer of BHC | 25.00 | 24.76 | Passed |
| Captan | 12.50 | 12.60 | |
| BHC - CHLORANIL | | | |
| Polk Miller Products Corp. | | | |
| Sergeant's Skip-Flea Powder | | | |
| Gamma isomer of BHC | 1.00 | 0.95 | Passed |
| Chloranil | 5.00 | 5.00 | |
| Perfume | 0.20 | Present | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|-----------|
| BHC - DICHLOROPHENE | | | |
| Happy Jack, Inc. | | | |
| Happy Jack Flea Tick Powder | | | |
| Gamma isomer of BHC | 1.00 | 1.09 | Passed |
| Dichlorophene | 2.00 | 1.94 | |
| Gamma isomer of BHC | 1.00 | | Passed |
| Dichlorophene | 2.00 | | |
| Theoretical chlorine | 1.26 | 1.23 | |
| BHC - METHYLATED NAPHTHALENES - PIPERONYL CYCLOHEXANONE | | | |
| Acme Quality Paints, Inc. | | | |
| Acme 5% Lindane | | | |
| Gamma isomer of BHC | 5.00 | 5.07 | Passed |
| Methylated naphthalenes | 3.75 | Present | |
| Piperonyl cyclohexanone | 2.50 | Present | |
| BHC - PINE OIL | | | |
| Agricultural Specialists | | | |
| Kolor Smear | | | |
| Gamma isomer of BHC | 3.00 | 3.24 | Passed |
| Pine Oil | 35.00 | Present | |
| Ralston Purina Company | | | |
| Purina Poultry Insecticide | | | |
| Gamma isomer of BHC | 1.50 | 1.62 | Passed |
| Pine Oil | 5.00 | Present | |
| BHC - PIPERONYL BUTOXIDE - PYRETHRINS | | | |
| Boyle-Midway Company | | | |
| Black Flag Push-Button Roach and Ant Killer | | | |
| Gamma isomer of BHC | 0.30 | 0.33 | Passed |
| Piperonyl butoxide | 0.40 | 0.39 | |
| Pyrethrins | 0.05 | 0.059 | |
| Gamma isomer of BHC | 0.30 | 0.45 | Passed |
| Piperonyl butoxide | 0.40 | 0.45 | |
| Pyrethrins | 0.05 | 0.059 | |
| BHC - DDT | | | |
| Acme Fertilizer Company | | | |
| Acme 3% BHC-5% DDT | | | |
| Gamma isomer of BHC | 3.00 | 3.10 | Passed |
| DDT | 5.00 | 5.64 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|------------------------------------|------------------------|-------------------|-----------|
| Acme 3% BHC - 5% DDT (Continued) | | | |
| Gamma isomer of BHC | 3.00 | 3.11 | Passed |
| DDT | 5.00 | 5.27 | |
| Gamma isomer of BHC | 3.00 | 2.96 | Passed |
| DDT | 5.00 | 5.40 | |
| Gamma isomer of BHC | 3.00 | 3.35 | Passed |
| DDT | 5.00 | 5.70 | |
| Atlas Chemical Corp. | | | |
| Atlas BHC 3-5-0 | | | |
| Gamma isomer of BHC | 3.00 | 3.02 | Passed |
| DDT | 5.00 | 5.44 | |
| California Spray-Chemical Corp. | | | |
| Volck Isotox Spray | | | |
| Gamma isomer of BHC | 1.00 | 1.17 | Passed |
| DDT | 2.00 | 1.90 | |
| Gamma isomer of BHC | 1.00 | 1.03 | Passed |
| DDT | 2.00 | 1.92 | |
| Gammacide 3-5 Cotton Dust | | | |
| Gamma isomer of BHC | 3.00 | 3.02 | Passed |
| DDT | 5.00 | 5.57 | |
| Gamma isomer of BHC | 3.00 | 3.20 | Passed |
| DDT | 5.00 | 5.74 | |
| Gamma isomer of BHC | 3.00 | 3.15 | Passed |
| DDT | 5.00 | 5.11 | |
| Gamma isomer of BHC | 3.00 | 2.98 | Passed |
| DDT | 5.00 | 5.61 | |
| Gamma isomer of BHC | 3.00 | 3.13 | Passed |
| DDT | 5.00 | 4.93 | |
| Cape Fear Chemicals, Inc. | | | |
| Tiger Brand 3-5-0 Cotton Dust | | | |
| Gamma isomer of BHC | 3.00 | 2.81 | Deficient |
| DDT | 5.00 | 5.12 | |
| Carolina Chemicals, Inc. | | | |
| Flight Brand BHC-DDT Dust 3-5-0 | | | |
| Gamma isomer of BHC | 3.00 | 2.87 | Passed |
| DDT | 5.00 | 5.37 | |
| Farmers Cooperative Exchange, Inc. | | | |
| F.C.X. 3-5-0 BHC-DDT | | | |
| Gamma isomer of BHC | 3.00 | 3.14 | Passed |
| DDT | 5.00 | 5.48 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|----------------------------------|------------------------|-------------------|-----------|
| F.C.X. 3-5-0 BHC-DDT (Continued) | | | |
| Gamma isomer of BHC | 3.00 | 3.22 | Passed |
| DDT | 5.00 | 4.96 | |
| Gamma isomer of BHC | 3.00 | 2.99 | Passed |
| DDT | 5.00 | 5.19 | |
| Gamma isomer of BHC | 3.00 | 3.06 | Passed |
| DDT | 5.00 | 5.80 | |
| Gamma isomer of BHC | 3.00 | 3.30 | Passed |
| DDT | 5.00 | 4.84 | |
| Gamma isomer of BHC | 3.00 | 3.20 | Passed |
| DDT | 5.00 | 7.05 | |
| Gamma isomer of BHC | 3.00 | 3.13 | Passed |
| DDT | 5.00 | 5.00 | |
| Gamma isomer of BHC | 3.00 | 2.90 | Passed |
| DDT | 5.00 | 5.50 | |
| Gamma isomer of BHC | 3.00 | 2.76 | Deficient |
| DDT | 5.00 | 5.22 | |
| Gamma isomer of BHC | 3.00 | 3.16 | Passed |
| DDT | 5.00 | 5.05 | |
| Gamma isomer of BHC | 3.00 | 2.85 | Passed |
| DDT | 5.00 | 5.08 | |

Geigy Agricultural Chemicals**Geigy 3-5 Cotton Dust**

| | | | |
|---------------------------|------|------|--------|
| Gamma isomer of BHC | 3.00 | 3.40 | Passed |
| DDT | 5.00 | 5.69 | |
| Gamma isomer of BHC | 3.00 | 3.53 | Passed |
| DDT | 5.00 | 5.66 | |

Geigy 3-10 Cotton Dust

| | | | |
|---------------------------|-------|-------|--------|
| Gamma isomer of BHC | 3.00 | 3.34 | Passed |
| DDT | 10.00 | 10.13 | |
| Gamma isomer of BHC | 3.00 | 3.09 | Passed |
| DDT | 10.00 | 10.75 | |

**General Chemical Division,
Allied Chemical and Dye Corp.****Orchard Brand 3-5 Cotton Dust**

| | | | |
|---------------------------|------|------|--------|
| Gamma isomer of BHC | 3.00 | 3.18 | Passed |
| DDT | 5.00 | 5.07 | |
| Gamma isomer of BHC | 3.00 | 2.96 | Passed |
| DDT | 5.00 | 5.09 | |
| Gamma isomer of BHC | 3.00 | 3.17 | Passed |
| DDT | 5.00 | 5.45 | |
| Gamma isomer of BHC | 3.00 | 3.16 | Passed |
| DDT | 5.00 | 5.61 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| Howerton Gowen Company | | | |
| Gowen's BHC 3-5-0 Dust | | | |
| Gamma isomer of BHC | 3.00 | 2.80 | Deficient |
| DDT | 5.00 | 4.90 | |
| Mathieson Chemical Corp. (Now: Olin Mathieson Chemical Corp.) | | | |
| Mathieson 3-5-0 Cotton Dust | | | |
| Gamma isomer of BHC | 3.00 | 3.09 | Passed |
| DDT | 5.00 | 5.33 | |
| Gamma isomer of BHC | 3.00 | 2.99 | Passed |
| DDT | 5.00 | 5.75 | |
| Gamma isomer of BHC | 3.00 | 3.02 | Passed |
| DDT | 5.00 | 4.83 | |
| Gamma isomer of BHC | 3.00 | 2.94 | Passed |
| DDT | 5.00 | 5.41 | |
| Gamma isomer of BHC | 3.00 | 3.04 | Passed |
| DDT | 5.00 | 5.85 | |
| Gamma isomer of BHC | 3.00 | 3.22 | Passed |
| DDT | 5.00 | 5.20 | |
| Gamma isomer of BHC | 3.00 | 2.94 | Passed |
| DDT | 5.00 | 5.38 | |
| Gamma isomer of BHC | 3.00 | 2.98 | Passed |
| DDT | 5.00 | 4.99 | |
| Gamma isomer of BHC | 3.00 | 2.90 | Passed |
| DDT | 5.00 | 4.75 | |
| Naco Fertilizer Company (Now: Davison Chemical Company) | | | |
| Naco Benny-Hex Cotton Dust 3-5-0-H | | | |
| Gamma isomer of BHC | 3.00 | 3.30 | Passed |
| DDT | 5.00 | 5.96 | |
| Gamma isomer of BHC | 3.00 | 3.34 | Passed |
| DDT | 5.00 | 5.24 | |
| Gamma isomer of BHC | 3.00 | 3.60 | Passed |
| DDT | 5.00 | 5.69 | |
| Niagara Chemical Division (Food Machinery and Chemical Corp.) | | | |
| Niagara Two-N-One Cotton Dust | | | |
| Gamma isomer of BHC | 3.00 | 3.03 | Passed |
| DDT | 5.00 | 5.77 | |
| Gamma isomer of BHC | 3.00 | 3.17 | Passed |
| DDT | 5.00 | 5.28 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| Olin Mathieson Chemical Corp. | | | |
| Mathieson 3-5-0 Cotton Dust | | | |
| Gamma isomer of BHC | 3.00 | 3.32 | Passed |
| DDT | 5.00 | 5.44 | |
| Gamma isomer of BHC | 3.00 | 2.85 | Passed |
| DDT | 5.00 | 4.86 | |
| Gamma isomer of BHC | 3.00 | 3.04 | Passed |
| DDT | 5.00 | 5.19 | |
| Gamma isomer of BHC | 3.00 | 2.72 | Deficient |
| DDT | 5.00 | 4.97 | |
| Mathieson 3-10-0 Cotton Dust | | | |
| Gamma isomer of BHC | 3.00 | 3.06 | Passed |
| DDT | 10.00 | 9.87 | |
| Gamma isomer of BHC | 3.00 | 2.76 | Deficient |
| DDT | 10.00 | 10.23 | |
| Gamma isomer of BHC | 3.00 | 3.47 | Passed |
| DDT | 10.00 | 10.37 | |
| Gamma isomer of BHC | 3.00 | 2.98 | Passed |
| DDT | 10.00 | 9.78 | |
| Mathieson BHC-DDT Cotton Emulsifiable Concentrate | | | |
| Gamma isomer of BHC | 10.80 | 10.56 | Passed |
| DDT | 18.00 | 18.38 | |
| W. R. Peele Company, Inc. | | | |
| Pelco 3-5 Cotton Dust | | | |
| Gamma isomer of BHC | 3.00 | 3.19 | Passed |
| DDT | 5.00 | 5.12 | |
| Gamma isomer of BHC | 3.00 | 3.04 | Passed |
| DDT | 5.00 | 4.98 | |
| Gamma isomer of BHC | 3.00 | 3.33 | Passed |
| DDT | 5.00 | 5.76 | |
| Gamma isomer of BHC | 3.00 | 3.20 | Passed |
| DDT | 5.00 | 5.21 | |
| Gamma isomer of BHC | 3.00 | 3.43 | Passed |
| DDT | 5.00 | 5.50 | |
| Gamma isomer of BHC | 3.00 | 3.13 | Passed |
| DDT | 5.00 | 5.12 | |
| Planters Chemical Corp. | | | |
| Planters 3-5-0 Cotton Dust | | | |
| Gamma isomer of BHC | 3.00 | 3.07 | Passed |
| DDT | 5.00 | 5.80 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---------------------------------|------------------------|-------------------|-----------|
| Stevens Industries, Inc. | | | |
| Master Brand 3-5 Cotton Dust | | | |
| Gamma isomer of BHC | 3.00 | 2.87 | Passed |
| DDT | 5.00 | 5.24 | |
| Taylor Chemical Company | | | |
| Superkill 3-5 Cotton Dust | | | |
| Gamma isomer of BHC | 3.00 | 2.54 | Deficient |
| DDT | 5.00 | 5.37 | |
| Gamma isomer of BHC | 3.00 | 3.23 | Passed |
| DDT | 5.00 | 5.10 | |
| Gamma isomer of BHC | 3.00 | 3.02 | Passed |
| DDT | 5.00 | 5.15 | |
| Gamma isomer of BHC | 3.00 | 3.04 | Passed |
| DDT | 5.00 | 5.21 | |
| Gamma isomer of BHC | 3.00 | 3.22 | Passed |
| DDT | 5.00 | 5.45 | |
| Gamma isomer of BHC | 3.00 | 3.13 | Passed |
| DDT | 5.00 | 5.35 | |
| Gamma isomer of BHC | 3.00 | 3.26 | Passed |
| DDT | 5.00 | 5.18 | |
| Gamma isomer of BHC | 3.00 | 3.23 | Passed |
| DDT | 5.00 | 5.61 | |
| Gamma isomer of BHC | 3.00 | 3.13 | Passed |
| DDT | 5.00 | 5.12 | |
| Gamma isomer of BHC | 3.00 | 3.09 | Passed |
| DDT | 5.00 | 5.06 | |
| Gamma isomer of BHC | 3.00 | 2.98 | Passed |
| DDT | 5.00 | 5.36 | |
| Gamma isomer of BHC | 3.00 | 3.06 | Passed |
| DDT | 5.00 | 5.54 | |
| Gamma isomer of BHC | 3.00 | 3.37 | Passed |
| DDT | 5.00 | 5.41 | |
| Gamma isomer of BHC | 3.00 | 2.94 | Passed |
| DDT | 5.00 | 5.43 | |
| Gamma isomer of BHC | 3.00 | 2.97 | Passed |
| DDT | 5.00 | 5.64 | |
| Gamma isomer of BHC | 3.00 | 3.04 | Passed |
| DDT | 5.00 | 5.48 | |
| Superkill 3-10 Cotton Dust | | | |
| Gamma isomer of BHC | 3.00 | 3.32 | Passed |
| DDT | 10.00 | 10.73 | |
| Gamma isomer of BHC | 3.00 | 3.11 | Passed |
| DDT | 10.00 | 10.38 | |
| Gamma isomer of BHC | 3.00 | 3.31 | Passed |
| DDT | 10.00 | 10.75 | |
| Gamma isomer of BHC | 3.00 | 3.21 | Passed |
| DDT | 10.00 | 10.82 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|-----------|
| Tobacco By-Products and Chemical Corp. (Now: Diamond Black Leaf Company) | | | |
| "Black Leaf" 3-5-0 Cotton Dust | | | |
| Gamma isomer of BHC | 3.00 | 3.23 | Passed |
| DDT | 5.00 | 5.47 | |
| Woolfolk Chemical Works, Ltd. | | | |
| Security Brand 3-5-0 Cotton Dust | | | |
| Gamma isomer of BHC | 3.00 | 3.21 | Passed |
| DDT | 5.00 | 5.41 | |
| Gamma isomer of BHC | 3.00 | 3.45 | Passed |
| DDT | 5.00 | 5.81 | |
| Gamma isomer of BHC | 3.00 | 3.02 | Passed |
| DDT | 5.00 | 5.61 | |
| BHC - DDT - ARAMITE - DDD - FERBAM | | | |
| California Spray-Chemical Corp. | | | |
| Ortho Home Orchard Spray | | | |
| Gamma isomer of BHC | 2.00 | | Passed |
| DDT | 8.00 | | |
| 2-(p-tert-butyl phenoxy) isopropyl 2 chloroethyl sulfite | 4.25 | | 11.70 |
| DDD | 8.00 | | |
| Ferric dimethyl dithiocarbamate | 12.25 | | |
| Theoretical chlorine | 9.45 | 9.97 | |
| Gamma isomer of BHC | 2.00 | | Passed |
| DDT | 8.00 | | |
| 2-(p-tert-butyl phenoxy) isopropyl 2 chloroethyl sulfite | 4.25 | | 12.08 |
| DDD | 8.00 | | |
| Ferric dimethyl dithiocarbamate | 12.25 | | |
| Theoretical chlorine | 9.45 | 9.50 | |
| BHC - DDT - CAPTAN - FERBAM - SULFUR | | | |
| California Spray-Chemical Corp. | | | |
| Ortho Rose Dust (Contains Captan and Lindane) | | | |
| Gamma isomer of BHC | 1.00 | 0.98 | Passed |
| DDT | 5.00 | 5.06 | |
| Captan | 7.50 | 7.98 | 3.81 |
| Ferric dimethyl dithiocarbamate | 3.50 | | |
| Sulfur | 40.00 | 42.62 | |
| Gamma isomer of BHC | 1.00 | | Passed |
| DDT | 5.00 | | |
| Captan | 7.50 | | 3.38 |
| Ferric dimethyl dithiocarbamate | 3.50 | | |
| Sulfur | 40.00 | 42.53 | |
| Theoretical chlorine | 5.88 | 5.62 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--------------------------|------------------------|-------------------|-----------|
|--------------------------|------------------------|-------------------|-----------|

Ortho Rose Dust (contains Captan and Lindane) (Continued)

| | | | |
|---------------------------------------|-------|-------|--------|
| Gamma isomer of BHC | 1.00 | 1.06 | Passed |
| DDT | 5.00 | 5.09 | |
| Captan | 7.50 | 7.39 | |
| Ferric dimethyl dithiocarbamate | 3.50 | 3.34 | |
| Sulfur | 40.00 | 42.77 | |

**BHC - DDT - CHLORDANE - COPPER -
MAGNESIA - SULFUR**

Re-Mark Chemical Company, Inc.

Hurricane Chinch Chek Spray

| | | | |
|----------------------------|-------|-------|----------------|
| Gamma isomer of BHC | 3.00 | | Not registered |
| DDT | 25.00 | | |
| Chlordane | 10.00 | | |
| Copper as metallic | 5.50 | 6.19 | |
| Magnesia | 1.50 | 1.90 | |
| Sulfur | 10.00 | 10.13 | |
| Theoretical chlorine | 24.39 | 23.76 | |

BHC - DDT - FERBAM - OVOTRAN - SULFUR

The Rose Manufacturing Company

Tri-ogen Rose Dust

| | | | |
|--|-------|-------|--------|
| Gamma isomer of BHC | 0.50 | | Passed |
| DDT | 5.00 | | |
| Ferric dimethyl dithiocarbamate | 3.50 | 3.90 | |
| p-chlorophenyl, p-chlorobenzene sul- fonate | 1.00 | | |
| Sulfur | 20.00 | 21.20 | |
| Theoretical chlorine | 3.10 | 3.00 | |

BHC - DDT - FERBAM - ROTENONE - SULFUR

Carbola Chemical Company, Inc.

CCC Rose Dust or Spray

| | | | |
|---------------------------------------|-------|---------|--------|
| Gamma isomer of BHC | 0.50 | 0.47 | Passed |
| DDT | 5.00 | 5.24 | |
| Ferric dimethyl dithiocarbamate | 7.00 | 7.29 | |
| Rotenone | 0.75 | Present | |
| Sulfur | 20.00 | 20.06 | |
| Gamma isomer of BHC | 0.50 | 0.48 | Passed |
| DDT | 5.00 | 5.76 | |
| Ferric dimethyl dithiocarbamate | 7.00 | 7.28 | |
| Rotenone | 0.75 | Present | |
| Sulfur | 20.00 | 19.68 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--------------------------|---------------------|----------------|-----------|
|--------------------------|---------------------|----------------|-----------|

BHC - DDT - FERBAM - SULFUR**California Spray-Chemical Corp.****Ortho Rose Dust Contains Lindane**

| | | | |
|---------------------------------------|-------|-------|--------|
| Gamma isomer of BHC | 1.00 | 0.95 | Passed |
| DDT | 5.00 | 4.92 | |
| Ferric dimethyl dithiocarbamate | 6.70 | 6.52 | |
| Sulfur | 40.00 | 43.87 | |
| Gamma isomer of BHC | 1.00 | 1.02 | Passed |
| DDT | 5.00 | 4.80 | |
| Ferric dimethyl dithiocarbamate | 6.70 | 6.67 | |
| Sulfur | 40.00 | 42.25 | |

Carbola Chemical Company, Inc.**CCC Fruit Tree Spray**

| | | | |
|---------------------------------------|-------|-------|-----------|
| Gamma isomer of BHC | 0.50 | 0.49 | Deficient |
| DDT | 7.00 | 6.65 | |
| Ferric dimethyl dithiocarbamate | 5.00 | 3.68 | |
| Sulfur | 33.00 | 33.64 | |
| Gamma isomer of BHC | 0.50 | 0.48 | Passed |
| DDT | 7.00 | 7.12 | |
| Ferric dimethyl dithiocarbamate | 5.00 | 4.95 | |
| Sulfur | 33.00 | 33.13 | |

BHC - DDT - METHYLATED NAPHTHALENES**Taylor Chemical Company****Superkill 3-5 BHC-DDT Emulsion**

| | | | |
|-------------------------------|-------|---------|--------|
| Gamma isomer of BHC | 8.70 | 9.54 | Passed |
| DDT | 14.50 | 16.10 | |
| Methylated naphthalenes | 35.50 | Present | |

BHC - DDT - PYRETHRINS**House of Huston, Inc.****Pal Dog Flea Powder**

| | | | |
|---------------------------|-------|-------|-----------|
| Gamma isomer of BHC | 1.000 | 1.150 | Deficient |
| DDT | 5.000 | 3.840 | |
| Pyrethrins | 0.250 | 0.097 | |

BHC - DDT - ROTENONE**Polk Miller Products Corp.****Sergeants Skip Tick Powder**

| | | | |
|---------------------------|------|------|--------|
| Gamma isomer of BHC | 1.00 | 1.00 | Passed |
| DDT | 2.00 | 2.40 | |
| Rotenone | 0.80 | 0.65 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|----------------|
| BHC - DDT - SULFUR | | | |
| Acme Fertilizer Company | | | |
| Acme 3% BHC—5% DDT—40% Sulfur | | | |
| Gamma isomer of BHC | 3.00 | 2.92 | Passed |
| DDT | 5.00 | 5.85 | |
| Sulfur | 40.00 | 43.12 | |
| Atlas Chemical Corp. | | | |
| Atlas Cotton Dust 3-5-40 | | | |
| Gamma isomer of BHC | 3.00 | 3.09 | Not registered |
| DDT | 5.00 | 5.79 | |
| Sulfur | 40.00 | 42.80 | |
| Farmers Cooperative Exchange, Inc. | | | |
| F.C.X. 3-5-40 BHC & DDT & Sulfur | | | |
| Gamma isomer of BHC | 3.00 | 3.39 | Passed |
| DDT | 5.00 | 5.74 | |
| Sulfur | 40.00 | 43.35 | |
| Gamma isomer of BHC | 3.00 | 2.95 | Passed |
| DDT | 5.00 | 5.44 | |
| Sulfur | 40.00 | 43.82 | |
| Gamma isomer of BHC | 3.00 | 2.95 | Passed |
| DDT | 5.00 | 5.31 | |
| Sulfur | 40.00 | 41.12 | |
| Geigy Agricultural Chemicals | | | |
| Geigy 3-5-40 Cotton Dust | | | |
| Gamma isomer of BHC | 3.00 | 3.04 | Passed |
| DDT | 5.00 | 5.76 | |
| Sulfur | 40.00 | 45.82 | |
| Gamma isomer of BHC | 3.00 | 3.30 | Passed |
| DDT | 5.00 | 5.40 | |
| Sulfur | 40.00 | 41.95 | |
| General Chemical Division, Allied Chemical and Dye Corp. | | | |
| Orchard Brand 3-5-40 Cotton Dust | | | |
| Gamma isomer of BHC | 3.00 | 3.26 | Passed |
| DDT | 5.00 | 5.61 | |
| Sulfur | 40.00 | 42.50 | |
| Gamma isomer of BHC | 3.00 | 3.45 | Passed |
| DDT | 5.00 | 5.63 | |
| Sulfur | 40.00 | 43.18 | |
| Mathieson Chemical Corp. (Now: Olin Mathieson Chemical Corp.) | | | |
| Mathieson 3-5-40 Cotton Dust | | | |
| Gamma isomer of BHC | 3.00 | 3.23 | Passed |
| DDT | 5.00 | 5.55 | |
| Sulfur | 40.00 | 42.47 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|-----------|
| Mathieson 3-5-40 Cotton Dust (Continued) | | | |
| Gamma isomer of BHC | 3.00 | 3.01 | Passed |
| DDT | 5.00 | 5.37 | |
| Sulfur | 40.00 | 41.65 | |
| Gamma isomer of BHC | 3.00 | 3.15 | Passed |
| DDT | 5.00 | 5.85 | |
| Sulfur | 40.00 | 38.02 | |
| Gamma isomer of BHC | 3.00 | 2.89 | Passed |
| DDT | 5.00 | 5.53 | |
| Sulfur | 40.00 | 41.29 | |
| Gamma isomer of BHC | 3.00 | 2.89 | Passed |
| DDT | 5.00 | 5.34 | |
| Sulfur | 40.00 | 44.65 | |
| Gamma isomer of BHC | 3.00 | 3.12 | Passed |
| DDT | 5.00 | 5.93 | |
| Sulfur | 40.00 | 38.67 | |
| Naco Fertilizer Company (Now: Davison Chemical Corp.) | | | |
| Benny-Hex Cotton Dust 3-5-40 | | | |
| Gamma isomer of BHC | 3.00 | 3.19 | Passed |
| DDT | 5.00 | 5.49 | |
| Sulfur | 40.00 | 40.52 | |
| Gamma isomer of BHC | 3.00 | 3.09 | Passed |
| DDT | 5.00 | 5.85 | |
| Sulfur | 40.00 | 39.25 | |
| Benny-Hex Cotton Dust 3-10-40 | | | |
| Gamma isomer of BHC | 3.00 | 3.64 | Passed |
| DDT | 10.00 | 10.08 | |
| Sulfur | 40.00 | 38.85 | |
| Niagara Chemical Division (Food Machinery and Chemical Corp.) | | | |
| Niagara Farm and Garden Brand New Pomo Green | | | |
| Gamma isomer of BHC | 1.00 | 1.19 | Passed |
| DDT | 5.00 | 5.69 | |
| Sulfur | 62.00 | 64.00 | |
| Taylor Chemical Company | | | |
| Superkill 3-5-40 Cotton Dust | | | |
| Gamma isomer of BHC | 3.00 | 3.09 | Passed |
| DDT | 5.00 | 5.69 | |
| Sulfur | 40.00 | 39.90 | |
| Gamma isomer of BHC | 3.00 | 3.31 | Passed |
| DDT | 5.00 | 5.49 | |
| Sulfur | 40.00 | 40.70 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|-----------|
| Superkill 3-5-40 Cotton Dust (Continued) | | | |
| Gamma isomer of BHC | 3.00 | 3.18 | Passed |
| DDT | 5.00 | 5.32 | |
| Sulfur | 40.00 | 40.11 | |
| Gamma isomer of BHC | 3.00 | 3.18 | Passed |
| DDT | 5.00 | 5.55 | |
| Sulfur | 40.00 | 40.17 | |
| Gamma isomer of BHC | 3.00 | 3.01 | Passed |
| DDT | 5.00 | 5.50 | |
| Sulfur | 40.00 | 42.37 | |
| Gamma isomer of BHC | 3.00 | 3.24 | Passed |
| DDT | 5.00 | 5.35 | |
| Sulfur | 40.00 | 42.35 | |
| Gamma isomer of BHC | 3.00 | 3.22 | Passed |
| DDT | 5.00 | 5.62 | |
| Sulfur | 40.00 | 44.07 | |
| Gamma isomer of BHC | 3.00 | 3.38 | Passed |
| DDT | 5.00 | 5.85 | |
| Sulfur | 40.00 | 41.22 | |
| Gamma isomer of BHC | 3.00 | 3.37 | Passed |
| DDT | 5.00 | 5.45 | |
| Sulfur | 40.00 | 41.72 | |
| Gamma isomer of BHC | 3.00 | 3.28 | Passed |
| DDT | 5.00 | 5.67 | |
| Sulfur | 40.00 | 40.20 | |
| Gamma isomer of BHC | 3.00 | 3.33 | Passed |
| DDT | 5.00 | 5.63 | |
| Sulfur | 40.00 | 39.50 | |
| Gamma isomer of BHC | 3.00 | 3.01 | Passed |
| DDT | 5.00 | 5.03 | |
| Sulfur | 40.00 | 40.98 | |

Woolfolk Chemical Works, Ltd.

Security Brand 3-5-40 Cotton Dust

| | | | |
|---------------------------|-------|-------|--------|
| Gamma isomer of BHC | 3.00 | 3.10 | Passed |
| DDT | 5.00 | 5.55 | |
| Sulfur | 40.00 | 41.50 | |

BORIC ACID**Colonial Chemical Company**

Colonial-23 Kills Roaches

| | | | |
|------------------|-------|-------|--------|
| Boric acid | 40.00 | 39.80 | Passed |
|------------------|-------|-------|--------|

Spindle City Chemical Company

Doc Edmond's Roach Powder

| | | | |
|------------------|-------|-------|--------|
| Boric acid | 99.00 | 99.40 | Passed |
|------------------|-------|-------|--------|

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| BORIC ACID - CHLORDANE | | | |
| Heller Laboratories, Inc. | | | |
| \$1,000.00 Roach Killer | | | |
| Boric acid | 51.00 | 53.92 | Passed |
| Chlordane | 0.20 | 0.76 | |
| Boric acid | 51.00 | 53.92 | Passed |
| Chlordane | 0.20 | 0.35 | |
| SODIUM TETRABORATE - CALCIUM SULFATE | | | |
| Mahaffey Company | | | |
| Mahaffey's Roach Powder | | | |
| Sodium tetraborate decahydrate | 60.00 | 77.30 | Passed |
| Calcium sulfate hemihydrate | 15.00 | 19.74 | |
| Sodium tetraborate | 60.00 | 35.83 | Deficient |
| Calcium sulfate | 20.00 | 14.68 | |
| CAPTAN | | | |
| California Spray-Chemical Corp. | | | |
| Orthocide Garden Fungicide | | | |
| Captan | 50.00 | 50.98 | Passed |
| do | 50.00 | 53.63 | Passed |
| CAPTAN - NITRO PHENOLS | | | |
| Acme Quality Paints, Inc. | | | |
| Acme Garden Fungicide | | | |
| Captan | 30.00 | | Passed |
| Dinitro phenyl crotonate | 2.70 | | |
| Other nitro phenols & derivatives | 0.30 | | |
| Theoretical nitrogen | 1.71 | 1.66 | |
| CHLORDANE | | | |
| Allied Drug Products Company | | | |
| Magic Brand Bug Killer | | | |
| Chlordane | 2.00 | 2.20 | Passed |
| California Spray-Chemical Corp. | | | |
| Ortho-Klor Chlordane Dust | | | |
| Chlordane | 5.00 | 5.50 | Passed |
| do | 5.00 | 5.18 | Passed |
| Cape Fear Chemicals, Inc. | | | |
| Tiger Brand 40% Chlordane | | | |
| Chlordane | 40.00 | 40.57 | Passed |
| do | 40.00 | 40.00 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| Carbola Chemical Company, Inc. | | | |
| CCC 6% Chlordane Dust | | | |
| Chlordane | 6.00 | 5.83 | Passed |
| do | 6.00 | 6.09 | Passed |
| do | 6.00 | 5.70 | Passed |
| do | 6.00 | 5.70 | Passed |
| do | 6.00 | 5.83 | Passed |
| Carolina Chemicals, Inc. | | | |
| Flight Brand Ant Killer | | | |
| Chlordane | 45.86 | 46.47 | Passed |
| Central Chemical Corp. (Now: Lebanon Chemical Corp.) | | | |
| Klor-Dust 5% Chlordane | | | |
| Chlordane | 5.00 | 4.71 | Deficient |
| The d-Con Company, Inc. | | | |
| D-Con Roach-Prufe Formula RP 200 | | | |
| Chlordane | 2.00 | 2.15 | Passed |
| The De Pree Company | | | |
| Vermi-tox VV4 | | | |
| Chlordane | 2.00 | 1.69 | Deficient |
| Farmers Cooperative Exchange, Inc. | | | |
| F.C.X. 50% Wettable Chlordane Powder | | | |
| Chlordane | 50.00 | 50.00 | Passed |
| do | 50.00 | 47.14 | Deficient |
| Geigy Agricultural Chemicals | | | |
| Geigy 40% Chlordane Wettable Powder | | | |
| Chlordane | 40.00 | 40.57 | Passed |
| Graham Chemical Company | | | |
| Red Star Ant Dust | | | |
| Chlordane | 6.00 | 7.84 | Passed |
| do | 6.00 | 7.46 | Passed |
| do | 6.00 | 7.80 | Passed |
| do | 6.00 | 7.37 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|-----------|
| Red Star 50% Chlordane Wettable Powder | | | |
| Chlordane | 50.00 | 48.93 | Passed |
| do | 50.00 | 48.93 | Passed |
| The Hilo Company | | | |
| Hilo Tick & Flea Spray | | | |
| Chlordane | 2.00 | 2.14 | Passed |
| Maxwell Insecticide Company, Inc. | | | |
| Roach and Ant Liquid | | | |
| Chlordane | 2.00 | 2.00 | Passed |
| Maxwell 5% Chlordane Dust | | | |
| Chlordane | 5.00 | 5.00 | Passed |
| Niagara Chemical Division (Food Machinery & Chemical Corp.) | | | |
| Niagara Farm & Garden Brand Chlordane Dust or Spray | | | |
| Chlordane | 5.00 | 4.96 | Passed |
| Pearson & Company | | | |
| Pearson's 6% Chlordane | | | |
| Chlordane | 6.00 | 5.70 | Passed |
| Planters Chemical Corp. | | | |
| Planters 40% Wettable Chlordane | | | |
| Chlordane | 40.00 | 38.57 | Passed |
| ReMark Chemical Company, Inc. | | | |
| Wonderchlor 50% Chlordane Emulsion | | | |
| Chlordane | 50.00 | 49.19 | Passed |
| Seacoast Laboratories, Inc. | | | |
| Twin Light Cloro Dust | | | |
| Chlordane | 5.00 | 5.85 | Passed |
| Sears, Roebuck & Company | | | |
| Cross Country Ant Spray | | | |
| Chlordane | 2.00 | 2.81 | Passed |
| Cross Country Ant Killer | | | |
| Chlordane | 5.00 | 5.14 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| Southern Agricultural Insecticides, Inc. | | | |
| SA-50 Brand Wettable 40% Chlordane | | | |
| Chlordane | 40.00 | 41.14 | Passed |
| Tobacco By-Products and Chemical Corp. (Now: Diamond Black Leaf Company) | | | |
| Black Leaf 5% Chlordane Dust | | | |
| Chlordane | 5.00 | 4.60 | Deficient |
| CHLORDANE - BHC | | | |
| California Spray-Chemical Corp. | | | |
| Ortho Ant Powder | | | |
| Chlordane | 2.50 | | Deficient |
| Gamma isomer of BHC | 0.50 | 0.59 | |
| Theoretical chlorine | 1.96 | 1.80 | |
| CHLORDANE - DDT | | | |
| Doggett-Pfeil Company | | | |
| D & P Japellent | | | |
| Chlordane | 5.00 | 4.80 | Passed |
| DDT | 45.00 | 44.62 | |
| Graham Chemical Company | | | |
| Red Star Ant Dust | | | |
| Chlordane | 10.00 | 9.75 | Passed |
| DDT | 5.00 | 5.24 | |
| Chlordane | 10.00 | 7.93 | Deficient |
| DDT | 5.00 | 5.15 | |
| Chlordane | 10.00 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 8.90 | 8.92 | |
| Chlordane | 10.00 | 7.79 | Deficient |
| DDT | 5.00 | 5.32 | |
| Chlordane | 10.00 | 9.03 | Deficient |
| DDT | 5.00 | 4.68 | |
| CHLORDANE - DDT - METHYL NAPHTHALENES - ORGANIC THIOCYANATES | | | |
| Pratt Food Company | | | |
| Pratt's Red Mite Special | | | |
| Chlordane | 0.50 | 0.80 | Passed |
| DDT | 5.00 | 5.99 | |
| Methyl naphthalenes | 10.00 | Present | |
| Beta butoxy beta thiocyanodiethyl ether | 1.00 | 1.40 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| CHLORDANE - DDT - PYRETHRINS | | | |
| Graham Chemical Company | | | |
| Bug-Death 3% DDT Chlordane 2% | | | |
| Chlordane | 2.00 | 1.47 | Deficient |
| DDT | 3.00 | 2.48 | |
| Pyrethrins | 0.20 | 0.12 | |
| CHLORDANE - DIELDRIN | | | |
| California Spray-Chemical Corp. | | | |
| Ortho Ant Powder Dieldrin & Chlordane | | | |
| Chlordane | 2.50 | 2.54 | Passed |
| Dieldrin | 0.50 | 0.50 | |
| Chlordane | 2.50 | 2.63 | Passed |
| Dieldrin | 0.50 | 0.62 | |
| Ortho Lawn & Garden Granular | | | |
| Chlordane | 1.00 | 0.95 | Passed |
| Dieldrin | 4.00 | 3.98 | |
| CHLORDANE - ORGANIC THIOCYANATES | | | |
| Rigo Manufacturing Company, Inc. | | | |
| Kill-Ko Roach & Ant Killer | | | |
| Chlordane | 2.50 | 3.46 | Passed |
| Lethane 384 Special | 3.00 | 3.10 | |
| Scott's Industries | | | |
| Plee-Zing Insect Spray | | | |
| Chlordane | 2.00 | 2.18 | Passed |
| Beta butoxy beta thiocyanodiethyl ether | 1.00 | 1.38 | |
| Chlordane | 2.00 | 2.19 | Passed |
| Beta butoxy beta thiocyanodiethyl ether | 1.00 | Present | |
| Swift and Company | | | |
| End-O-Pest ARC Dust | | | |
| Chlordane | 8.00 | 7.77 | Passed |
| Lethane 384 Special | 1.00 | Present | |
| CHLORDANE - ORGANIC THIOCYANATES - PIPERONYL BUTOXIDE - PYRETHRINS | | | |
| Rigo Manufacturing Company, Inc. | | | |
| Kill-Ko Insect Spray | | | |
| Chlordane | 2.50 | 2.76 | Passed |
| Lethane 384 Special | 1.34 | 1.34 | |
| Piperonyl butoxide | 0.118 | 0.131 | |
| Pyrethrins | 0.047 | 0.060 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|----------------|
| CHLORDANE - PIPERONYL BUTOXIDE - PYRETHRINS | | | |
| Allied Drug Products Company | | | |
| Magic Brand Bug Killer | | | |
| Chlordane | 2.00 | 2.35 | Passed |
| Piperonyl butoxide | 0.115 | 0.150 | |
| Pyrethrins | 0.046 | 0.05 | |
| The Dill Company | | | |
| D-K Spray | | | |
| Chlordane | 2.00 | 2.08 | Passed |
| Piperonyl butoxide | 0.075 | 0.070 | |
| Pyrethrins | 0.015 | 0.018 | |
| Perfume | 0.25 | Present | |
| Dixie Home Stores | | | |
| Dixie Home Aerosol Residual Spray Roach and Ant Killer | | | |
| Chlordane | 2.000 | 2.090 | Passed |
| Piperonyl butoxide | 0.115 | 0.140 | |
| Pyrethrins | 0.046 | 0.056 | |
| Dr. L. D. LeGear Medicine Company | | | |
| Dr. LeGear's Household Insect Spray | | | |
| Chlordane | 2.00 | 2.12 | Passed |
| Piperonyl butoxide | 0.25 | 0.30 | |
| Pyrethrins | 0.03 | 0.037 | |
| Chlordane | 2.00 | 2.13 | Passed |
| Piperonyl butoxide | 0.25 | 0.27 | |
| Pyrethrins | 0.03 | 0.048 | |
| Chlordane | 2.00 | 2.12 | Passed |
| Piperonyl butoxide | 0.25 | 0.28 | |
| Pyrethrins | 0.03 | 0.037 | |
| The Tennessee Soap Company | | | |
| Hot Shot Bug Killer | | | |
| Chlordane | 2.00 | 2.36 | Not registered |
| Piperonyl butoxide | 0.188 | 0.24 | |
| Pyrethrins | 0.075 | 0.071 | |
| Chlordane | 2.00 | 2.10 | Not registered |
| Piperonyl butoxide | 0.188 | Present | |
| Pyrethrins | 0.075 | 0.070 | |
| CHLORDANE - PIPERONYL CYCLONENE PYRETHRINS | | | |
| Boyle-Midway, Inc. | | | |
| Black Flag Insecticide Powder | | | |
| Chlordane | 1.50 | 1.63 | Passed |
| Piperonyl cyclonene | 0.35 | Present | |
| Pyrethrins | 0.06 | 0.09 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| Black Flag Insecticide Powder (Continued) | | | |
| Chlordane | 1.50 | 2.18 | Passed |
| Piperonyl cyclonene | 0.35 | Present | |
| Pyrethrins | 0.06 | 0.082 | |
| Chlordane | 1.50 | 2.47 | Passed |
| Piperonyl cyclonene | 0.35 | Present | |
| Pyrethrins | 0.06 | 0.072 | |
| Chlordane | 1.50 | 1.60 | Passed |
| Piperonyl cyclonene | 0.35 | Present | |
| Pyrethrins | 0.06 | 0.08 | |

CHLORDANE - PYRETHRINS

Gulf Oil Corp.

Gulf Roach & Ant Killer

| | | | |
|------------------|------|------|--------|
| Chlordane | 2.00 | 2.00 | Passed |
| Pyrethrins | 0.19 | 0.21 | |
| Chlordane | 2.00 | 1.90 | Passed |
| Pyrethrins | 0.19 | 0.21 | |

CHLORDANE - TOXAPHENE

Southern Agricultural Insecticides, Inc.

SA-50 Brand Cut Worm Bait

| | | | |
|----------------------------|------|---------|--------|
| Chlordane | 1.50 | | Passed |
| Toxaphene | 2.00 | | |
| Theoretical chlorine | 2.30 | 2.84 | |
| Chlordane | 1.50 | Present | Passed |
| Toxaphene | 2.00 | Present | |
| Theoretical chlorine | 2.30 | 2.59 | |

COPPER

Carbola Chemical Company

CCC Copper Dust

| | | | |
|--------------------------|------|------|--------|
| Copper as metallic | 6.00 | 5.86 | Passed |
| do | 6.00 | 6.64 | Passed |

Central Chemical Company (Now: Lebanon Chemical Corp.)

Lebanon Bor-Dox Copper Fungicide

| | | | |
|--------------------------|-------|-------|--------|
| Copper as metallic | 12.75 | 13.61 | Passed |
|--------------------------|-------|-------|--------|

Farmers Cooperative Exchange, Inc.

F.C.X. 7% Copper Dust Fungicide

| | | | |
|--------------------------|------|------|--------|
| Copper as metallic | 7.00 | 6.61 | Passed |
|--------------------------|------|------|--------|

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|-----------|
| Lebanon Chemical Corp. | | | |
| Lebanon Bor-Dox Copper Fungicide | | | |
| Copper as metallic | 12.75 | 13.03 | Passed |
| Mechlin Bros. Chemicals (Now: General Chemical Division, Allied Chemical & Dye Corp.) | | | |
| Orchard Brand Powdered Bordeaux Mixture | | | |
| Copper as metallic | 12.75 | 13.61 | Passed |
| Southern Agricultural Insecticides, Inc. | | | |
| SA-50 Brand Tomato Dust | | | |
| Copper as metallic | 7.00 | 6.77 | Passed |
| do | 7.00 | 7.23 | Passed |
| COPPER - SULFUR | | | |
| Olin Mathieson Chemical Corp. | | | |
| Mathieson Peanut Dust | | | |
| Copper as metallic | 4.00 | 3.94 | Passed |
| Sulfur | 89.00 | 92.80 | |
| Virginia-Carolina Chemical Corp. (Now: Diamond Black Leaf Company) | | | |
| "Black Leaf" Peanut Dust No. 7 | | | |
| Copper as metallic | 4.00 | 4.02 | Passed |
| Sulfur | 82.00 | 84.60 | |
| COPPER - ZINC | | | |
| Woolfolk Chemical Works, Ltd. | | | |
| Security Brand Bordeaux Mixture | | | |
| Copper as metallic | 12.50 | 12.32 | Passed |
| Zinc as metallic | 10.00 | 10.37 | |
| Copper as metallic | 12.50 | 14.18 | Passed |
| Zinc as metallic | 10.00 | 10.29 | |
| Copper as metallic | 12.50 | 13.12 | Passed |
| Zinc as metallic | 10.00 | 9.66 | |
| CUPROUS OXIDE | | | |
| Rigo Manufacturing Company, Inc. | | | |
| Royal Cuprocide Dust | | | |
| Cuprous oxide | 5.00 | 5.41 | Passed |
| do | 5.00 | 3.81 | Deficient |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|-----------|
| 2,4-D | | | |
| O. M. Scott & Sons Company | | | |
| Scott's 4-X D Weed Control | | | |
| Alkanolamine salts of 2,4-D | 2.65 | | Passed |
| 2,4-D acid equivalent | 1.60 | 1.86 | |
| Swift and Company | | | |
| End-O-Weed 2,4-D Lawn Killer | | | |
| Butoxy ethoxy propanol ester of 2,4-D | 22.40 | | Passed |
| 2,4-D acid equivalent | 12.70 | 15.10 | |
| Swift's Gold Bear Brand 40 Amine Weed Control | | | |
| Isopropyl & di-isopropanol amine salts of 2,4-D | 56.00 | | Passed |
| 2,4-D acid equivalent | 40.40 | 41.50 | |
| 2,4-D - 2,4,5-T | | | |
| California Spray-Chemical Corp. | | | |
| Improved Weed-B-Gon | | | |
| Tetrahydrofurfuryl ester of 2,4-D | 13.80 | | Passed |
| Tetrahydrofurfuryl ester of 2,4,5-T | 6.60 | | |
| Phenoxyacetic acid equivalent | 9.86 | 10.10 | |
| DDD | | | |
| Acme Fertilizer Company | | | |
| Acme 10% TDE | | | |
| DDD | 10.00 | 10.07 | Passed |
| do | 10.00 | 11.00 | Passed |
| Acme TDE Emulsion | | | |
| DDD | 24.00 | 24.79 | Passed |
| do | 24.00 | 24.10 | Passed |
| Acme Quality Paints, Inc. | | | |
| Acme 25% Rhothane Emulsion Concentrate | | | |
| DDD | 25.00 | 26.31 | Passed |
| Apex Chemical Company | | | |
| TDE Tobacco Dust | | | |
| DDD | 10.00 | 11.00 | Passed |
| do | 10.00 | 9.57 | Passed |
| do | 10.00 | 9.79 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|-----------|
| California Spray-Chemical Corp. | | | |
| Orthene 3D 10 Dust | | | |
| DDD | 10.00 | 10.22 | Passed |
| do | 10.00 | 10.07 | Passed |
| do | 10.00 | 10.43 | Passed |
| do | 10.00 | 10.36 | Passed |
| do | 10.00 | 10.14 | Passed |
| do | 10.00 | 10.22 | Passed |
| do | 10.00 | 9.36 | Deficient |
| do | 10.00 | 9.21 | Deficient |
| do | 10.00 | 9.14 | Deficient |
| do | 10.00 | 10.36 | Passed |
| Cape Fear Chemicals, Inc. | | | |
| Tiger Brand 10% TDE Tobacco Dust | | | |
| DDD | 10.00 | 10.43 | Passed |
| do | 10.00 | 10.14 | Passed |
| do | 10.00 | 10.29 | Passed |
| do | 10.00 | 10.43 | Passed |
| do | 10.00 | 10.43 | Passed |
| do | 10.00 | 10.29 | Passed |
| do | 10.00 | 9.79 | Passed |
| do | 10.00 | 10.29 | Passed |
| do | 10.00 | 9.64 | Passed |
| do | 10.00 | 9.64 | Passed |
| Tiger Brand TDE Emulsion Concentrate | | | |
| DDD | 25.00 | 24.88 | Passed |
| do | 25.00 | 24.60 | Passed |
| do | 25.00 | 25.82 | Passed |
| do | 25.00 | 24.81 | Passed |
| do | 25.00 | 24.77 | Passed |
| Carolina Chemicals, Inc. | | | |
| Flight Brand 10% Rhothane Dust | | | |
| DDD | 10.00 | 10.07 | Passed |
| do | 10.00 | 10.00 | Passed |
| Carter Insecticide & Chemical Company | | | |
| Carolina Brand 25% TDE Tobacco Insect Killer | | | |
| DDD | 25.00 | 25.01 | Passed |
| do | 25.00 | 24.04 | Passed |
| do | 25.00 | 24.60 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| Coastal Chemical Corp. | | | |
| 10% TDE Dust | | | |
| DDD | 10.00 | 11.14 | Passed |
| do | 10.00 | 10.14 | Passed |
| do | 10.00 | 10.14 | Passed |
| Daly-Herring Company | | | |
| Bacco Dust 10% TDE Dust | | | |
| DDD | 10.00 | 10.57 | Passed |
| do | 10.00 | 10.64 | Passed |
| Bacco Spray Emulsible Concentrate | | | |
| DDD | 25.00 | 24.37 | Passed |
| Farmers Cooperative Exchange, Inc. | | | |
| F.C.X. 10% TDE Dust | | | |
| DDD | 10.00 | 10.50 | Passed |
| do | 10.00 | 9.93 | Passed |
| do | 10.00 | 10.14 | Passed |
| do | 10.00 | 10.07 | Passed |
| do | 10.00 | 10.29 | Passed |
| do | 10.00 | 10.43 | Passed |
| do | 10.00 | 10.29 | Passed |
| do | 10.00 | 10.22 | Passed |
| do | 10.00 | 10.36 | Passed |
| do | 10.00 | 10.29 | Passed |
| do | 10.00 | 10.00 | Passed |
| do | 10.00 | 10.36 | Passed |
| do | 10.00 | 10.29 | Passed |
| do | 10.00 | 10.14 | Passed |
| do | 10.00 | 10.29 | Passed |
| do | 10.00 | 10.00 | Passed |
| do | 10.00 | 10.07 | Passed |
| do | 10.00 | 10.00 | Passed |
| do | 10.00 | 10.22 | Passed |
| do | 10.00 | 10.22 | Passed |
| do | 10.00 | 10.00 | Passed |
| do | 10.00 | 10.36 | Passed |
| do | 10.00 | 10.36 | Passed |
| do | 10.00 | 9.86 | Passed |
| do | 10.00 | 10.07 | Passed |
| do | 10.00 | 10.14 | Passed |
| do | 10.00 | 9.79 | Passed |
| do | 10.00 | 10.14 | Passed |
| do | 10.00 | 10.07 | Passed |
| do | 10.00 | 9.93 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| Farm Service Company | | | |
| Tobacco Spray Rhothane Emulsion Concentrate | | | |
| DDD | 23.98 | 24.91 | Passed |
| do | 23.98 | 25.96 | Passed |
| Geigy Agricultural Chemicals | | | |
| Geigy 10% TDE Dust | | | |
| DDD | 10.00 | 10.29 | Passed |
| Geigy 25% TDE Emulsion Concentrate | | | |
| DDD | 25.00 | 26.32 | Passed |
| Graham Chemical Company | | | |
| Graham's Red Star 10% Rhothane Dust | | | |
| DDD | 10.00 | 10.14 | Passed |
| do | 10.00 | 10.50 | Passed |
| do | 10.00 | 9.71 | Passed |
| do | 10.00 | 10.22 | Passed |
| do | 10.00 | 10.29 | Passed |
| do | 10.00 | 10.43 | Passed |
| do | 10.00 | 10.57 | Passed |
| Johnson Cotton Company, Inc. | | | |
| Southern Quality 10% TDE Tobacco Dust | | | |
| DDD | 10.00 | 9.72 | Passed |
| do | 10.00 | 10.57 | Passed |
| do | 10.00 | 10.00 | Passed |
| Lebanon Chemical Corp. | | | |
| Lebanon 3-D 10% Dust | | | |
| DDD | 10.00 | 10.29 | Passed |
| Mathieson Chemical Corp. (Now: Olin Mathieson Chemical Corp.) | | | |
| Mathieson 10% Rhothane Dust | | | |
| DDD | 10.00 | 10.07 | Passed |
| do | 10.00 | 10.93 | Passed |
| do | 10.00 | 10.57 | Passed |
| do | 10.00 | 10.00 | Passed |
| do | 10.00 | 10.00 | Passed |
| do | 10.00 | 10.22 | Passed |
| do | 10.00 | 10.43 | Passed |
| do | 10.00 | 10.14 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|--------------|
| Mathieson 25% Rhothane Spray Concentrate | | | |
| DDD | 25.00 | 25.63 | Passed |
| do | 25.00 | 26.64 | Passed |
| Maxwell Insecticide Company, Inc. | | | |
| Maxwell Insecticide 10% TDE Dust | | | |
| DDD | 10.00 | 10.57 | Passed |
| do | 10.00 | 10.14 | Passed |
| do | 10.00 | 10.43 | Passed |
| do | 10.00 | 9.93 | Passed |
| do | 10.00 | 10.43 | Passed |
| do | 10.00 | 10.43 | Passed |
| do | 10.00 | 10.43 | Passed |
| do | 10.00 | 10.93 | Passed |
| do | 10.00 | 10.29 | Passed |
| do | 10.00 | 10.36 | Passed |
| do | 10.00 | 10.79 | Passed |
| do | 10.00 | 10.22 | Passed |
| do | 10.00 | 10.22 | Passed |
| do | 10.00 | 10.29 | Passed |
| do | 10.00 | 10.36 | Passed |
| do | 10.00 | 10.00 | Passed |
| do | 10.00 | 10.00 | Passed |
| do | 10.00 | 10.22 | Passed |
| do | 10.00 | 9.93 | Passed |
| do | 10.00 | 10.43 | Passed |
| do | 10.00 | 10.07 | Passed |
| do | 10.00 | 9.86 | Passed |
| do | 10.00 | 10.22 | Passed |
| do | 10.00 | 10.07 | Passed |
| do | 10.00 | 10.00 | Passed |
| do | 10.00 | 9.86 | Passed |
| do | 10.00 | 10.22 | Passed |
| do | 10.00 | 10.64 | Passed |
| do | 10.00 | 10.14 | Passed |
| do | 10.00 | 10.29 | Passed |
| do | 10.00 | 10.43 | Passed |
| do | 10.00 | 10.72 | Passed |
| do | 10.00 | 10.29 | Passed |
| do | 10.00 | 10.07 | Passed |
| do | 10.00 | 11.04 | *Adulterated |
| do | 10.00 | 10.43 | *Adulterated |

* Toxaphene present

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|----------------|
| Naco Fertilizer Company (Now: Davison Chemical Company) | | | |
| Naco 10% Rhothane Dust | | | |
| DDD | 10.00 | 9.86 | Passed |
| do | 10.00 | 10.14 | Passed |
| do | 10.00 | 10.14 | Passed |
| do | 10.00 | 9.64 | Passed |
| do | 10.00 | 10.43 | Passed |
| do | 10.00 | 10.00 | Passed |
| do | 10.00 | 10.29 | Passed |
| do | 10.00 | 10.07 | Passed |
| Naco 25% Rhothane Emulsion | | | |
| DDD | 25.00 | 24.97 | Not registered |
| Olin Mathieson Chemical Corp. | | | |
| Mathieson 10% Rhothane Dust | | | |
| DDD | 10.00 | 9.79 | Passed |
| do | 10.00 | 9.93 | Passed |
| do | 10.00 | 10.43 | Passed |
| do | 10.00 | 9.93 | Passed |
| do | 10.00 | 10.22 | Passed |
| do | 10.00 | 9.79 | Passed |
| do | 10.00 | 10.72 | Passed |
| do | 10.00 | 10.00 | Passed |
| do | 10.00 | 9.86 | Passed |
| W. R. Peele Company, Inc. | | | |
| Pelco 10% TDE Rhothane Tobacco Dust | | | |
| DDD | 10.00 | 10.14 | Passed |
| do | 10.00 | 9.93 | Passed |
| do | 10.00 | 10.00 | Passed |
| do | 10.00 | 10.00 | Passed |
| do | 10.00 | 10.22 | Passed |
| do | 10.00 | 10.07 | Passed |
| do | 10.00 | 10.07 | Passed |
| do | 10.00 | 10.29 | Passed |
| do | 10.00 | 10.43 | Passed |
| do | 10.00 | 10.36 | Passed |
| do | 10.00 | 9.86 | Passed |
| do | 10.00 | 10.07 | Passed |
| do | 10.00 | 10.57 | Passed |
| do | 10.00 | 10.36 | Passed |
| do | 10.00 | 9.86 | Passed |
| do | 10.00 | 10.72 | Passed |
| do | 10.00 | 10.14 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| Pelco 10% TDE Rhothane Tobacco Dust (Continued) | | | |
| DDD | 10.00 | 10.57 | Passed |
| do | 10.00 | 10.00 | Passed |
| do | 10.00 | 10.14 | Passed |
| do | 10.00 | 10.00 | Passed |
| do | 10.00 | 10.07 | Passed |
| do | 10.00 | 9.86 | Passed |
| do | 10.00 | 10.14 | Passed |
| do | 10.00 | 10.22 | Passed |
| do | 10.00 | 10.28 | Passed |
| do | 10.00 | 9.93 | Passed |
| do | 10.00 | 10.57 | Passed |
| do | 10.00 | 10.50 | Passed |
| do | 10.00 | 10.72 | Passed |
| do | 10.00 | 10.50 | Passed |
| do | 10.00 | 10.00 | Passed |
| do | 10.00 | 10.50 | Passed |
| do | 10.00 | 10.14 | Passed |
| do | 10.00 | 10.57 | Passed |
| do | 10.00 | 10.43 | Passed |
| do | 10.00 | 10.00 | Passed |
| do | 10.00 | 10.72 | Passed |
| do | 10.00 | 10.29 | Passed |
| do | 10.00 | 9.93 | Passed |
| do | 10.00 | 10.29 | Passed |
| do | 10.00 | 10.50 | Passed |
| do | 10.00 | 10.14 | Passed |
| do | 10.00 | 10.43 | Passed |
| do | 10.00 | 10.29 | Passed |
| do | 10.00 | 10.57 | Passed |
| do | 10.00 | 10.50 | Passed |
| do | 10.00 | 10.22 | Passed |
| do | 10.00 | 10.29 | Passed |
| do | 10.00 | 10.43 | Passed |
| do | 10.00 | 10.00 | Passed |
| Pelco Tobacco Spray 25% Emulsion Concentrate | | | |
| DDD | 25.00 | 25.40 | Passed |
| do | 25.00 | 24.83 | Passed |
| do | 25.00 | 24.40 | Passed |
| Planters Chemical Corp. | | | |
| Planters 10% TDE Dust | | | |
| DDD | 10.00 | 10.50 | Passed |
| do | 10.00 | 10.50 | Passed |
| do | 10.00 | 10.29 | Passed |
| do | 10.00 | 10.22 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|-----------|
| Planters 25% Rhothane Emulsion Concentrate | | | |
| DDD | 25.00 | 25.09 | Passed |
| Quality Chemical Corp. | | | |
| 10% TDE Dust | | | |
| DDD | 10.00 | 10.43 | Passed |
| do | 10.00 | 10.00 | Passed |
| do | 10.00 | 10.36 | Passed |
| do | 10.00 | 10.22 | Passed |
| do | 10.00 | 10.50 | Passed |
| do | 10.00 | 10.00 | Passed |
| do | 10.00 | 10.14 | Passed |
| do | 10.00 | 9.93 | Passed |
| do | 10.00 | 10.36 | Passed |
| Rohm & Haas Company | | | |
| 25% Rhothane Emulsion Concentrate | | | |
| DDD | 25.00 | 25.58 | Passed |
| do | 25.00 | 26.21 | Passed |
| do | 25.00 | 25.28 | Passed |
| do | 25.00 | 25.45 | Passed |
| do | 25.00 | 25.65 | Passed |
| Smith Seed & Feed Company | | | |
| Early Bird 10% DDD or TDE Dust | | | |
| DDD | 10.00 | 12.21 | Passed |
| do | 10.00 | 10.29 | Passed |
| do | 10.00 | 9.21 | Deficient |
| do | 10.00 | 9.07 | Deficient |
| do | 10.00 | 9.64 | Passed |
| Southern Agricultural Chemicals, Inc. | | | |
| Royal Brand 25% Rhothane Emulsion Concentrate | | | |
| DDD | 25.00 | 26.12 | Passed |
| Stauffer Chemical Company | | | |
| Stauffer Tobacco Dust No. 7-1 | | | |
| DDD | 10.00 | 10.86 | Passed |
| do | 10.00 | 11.14 | Passed |
| do | 10.00 | 10.64 | Passed |
| do | 10.00 | 11.42 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| Taylor Chemical Company | | | |
| Superkill 10% TDE Tobacco Dust | | | |
| DDD | 10.00 | 11.00 | Passed |
| do | 10.00 | 8.57 | Deficient |
| do | 10.00 | 9.00 | Deficient |
| do | 10.00 | 9.86 | Passed |
| do | 10.00 | 10.72 | Passed |
| do | 10.00 | 10.22 | Passed |
| do | 10.00 | 10.14 | Passed |
| Superkill 24% TDE Emulsifiable Concentrate | | | |
| DDD | 24.00 | 25.66 | Passed |
| Tobacco By-Products and Chemical Corp. (Now: Diamond Black Leaf Company) | | | |
| "Black Leaf" 10% TDE Dust | | | |
| DDD | 10.00 | 10.36 | Passed |
| do | 10.00 | 10.36 | Passed |
| Virginia-Carolina Chemical Corp. (Now: Diamond Black Leaf Company) | | | |
| "Black Leaf" 10% TDE Dust | | | |
| DDD | 10.00 | 9.86 | Passed |
| do | 10.00 | 10.43 | Passed |
| do | 10.00 | 10.36 | Passed |
| do | 10.00 | 10.14 | Passed |
| Woolfolk Chemical Works, Ltd. | | | |
| Security Brand 10% 3-D's Dust | | | |
| DDD | 10.00 | 10.00 | Passed |
| do | 10.00 | 10.07 | Passed |
| do | 10.00 | 10.57 | Passed |
| do | 10.00 | 10.22 | Passed |
| do | 10.00 | 10.36 | Passed |
| do | 10.00 | 10.14 | Passed |
| Security Brand 25% 3-D's Emulsion Concentrate | | | |
| DDD | 25.00 | 26.13 | Passed |
| do | 25.00 | 26.23 | Passed |
| DDD - PARATHION | | | |
| Apex Chemical Company | | | |
| Apex 10-1 Tobacco Dust | | | |
| DDD | 10.00 | 9.72 | Passed |
| Parathion | 1.00 | 1.23 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|-----------|
| Apex 10-1 Tobacco Dust (Continued) | | | |
| DDD | 10.00 | 9.72 | Passed |
| Parathion | 1.00 | 1.10 | |
| Carolina Chemicals, Inc. | | | |
| Flight Brand 1% Parathion 10% TDE Dust | | | |
| DDD | 10.00 | 9.64 | Passed |
| Parathion | 1.00 | 1.20 | |
| California Spray-Chemical Corp. | | | |
| Vapophos -3D 1-10 Dust | | | |
| DDD | 10.00 | 10.43 | Passed |
| Parathion | 1.00 | 1.37 | |
| DDD | 10.00 | 10.36 | Passed |
| Parathion | 1.00 | 1.37 | |
| DDD | 10.00 | 10.36 | Passed |
| Parathion | 1.00 | 1.66 | |
| DDD | 10.00 | 10.22 | Passed |
| Parathion | 1.00 | 1.44 | |
| Cape Fear Chemicals, Inc. | | | |
| Tiger Brand Triple Quick 1-10 Tobacco Dust | | | |
| DDD | 10.00 | 10.43 | Deficient |
| Parathion | 1.00 | 0.91 | |
| DDD | 10.00 | 10.43 | Passed |
| Parathion | 1.00 | 1.12 | |
| DDD | 10.00 | 10.22 | Passed |
| Parathion | 1.00 | 1.14 | |
| Maxwell Insecticide Company, Inc. | | | |
| Maxwell 10-1 Tobacco Dust | | | |
| DDD | 10.00 | 10.36 | Passed |
| Parathion | 1.00 | 1.26 | |
| Pee Dee Chemicals, Inc. | | | |
| 10% Rhothane Dust with 1% Parathion | | | |
| DDD | 10.00 | 11.00 | Passed |
| Parathion | 1.00 | 1.11 | |
| W. R. Peele Company, Inc. | | | |
| Pelco Tobacco Dust—10% TDE 1% Parathion | | | |
| DDD | 10.00 | 10.00 | Passed |
| Parathion | 1.00 | 1.10 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|-----------|
| Quality Chemical Corp. | | | |
| Champion Chemical Tobacco Dust | | | |
| DDD | 10.00 | 10.14 | Passed |
| Parathion | 1.00 | 1.22 | |
| Southern Agricultural Chemicals, Inc. | | | |
| Royal Brand 10% Rhothane Dust with 1% Parathion | | | |
| DDD | 10.00 | 10.07 | Passed |
| Parathion | 1.00 | 0.98 | |
| DDD | 10.00 | 10.43 | Passed |
| Parathion | 1.00 | 1.03 | |
| Woolfolk Chemical Works, Ltd. | | | |
| Security Brand 3 Way Tobacco Dust | | | |
| DDD | 10.00 | 10.00 | Passed |
| Parathion | 1.00 | 1.12 | |
| DDD - ZINEB | | | |
| Pearson & Company | | | |
| Pearson's Tomato Dust | | | |
| DDD | 3.00 | 3.30 | Passed |
| Zinc ethylene bisdithiocarbamate | 3.90 | 4.88 | |
| DDT | | | |
| Acme Fertilizer Company | | | |
| Acme 10% DDT | | | |
| DDT | 10.00 | 9.64 | Passed |
| Acme Quality Paints, Inc. | | | |
| Acme Dura Dust No. 50 (50% Wettable DDT) | | | |
| DDT | 50.00 | 52.14 | Passed |
| do | 50.00 | 47.50 | Passed |
| do | 50.00 | 49.64 | Passed |
| Boyer Chemical Laboratory Company | | | |
| 5% DDT Insect Spray | | | |
| DDT | 5.00 | 5.37 | Passed |
| California Spray-Chemical Corp. | | | |
| Persisto 5 Dust (Contains 5% DDT) | | | |
| DDT | 5.00 | 5.11 | Passed |
| do | 5.00 | 5.79 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| Persisto 5 Dust (contains 5% DDT) (Continued) | | | |
| DDT | 5.00 | 4.93 | Passed |
| do | 5.00 | 4.71 | Deficient |
| do | 5.00 | 4.28 | Deficient |
| do | 5.00 | 6.00 | Passed |
| Orthene 3D 10 Dust | | | |
| DDT | 10.00 | 9.22 | Deficient |
| Persisto 10 Dust | | | |
| DDT | 10.00 | 10.50 | Passed |
| Cape Fear Chemicals, Inc. | | | |
| Tiger Brand 5% DDT Dust | | | |
| DDT | 5.00 | 4.93 | Passed |
| do | 5.00 | 5.43 | Passed |
| do | 5.00 | 4.86 | Passed |
| do | 5.00 | 5.14 | Passed |
| do | 5.00 | 5.25 | Passed |
| do | 5.00 | 5.00 | Passed |
| do | 5.00 | 4.82 | Passed |
| do | 5.00 | 4.89 | Passed |
| Tiger Brand 10% DDT Dust | | | |
| DDT | 10.00 | 9.64 | Passed |
| do | 10.00 | 9.72 | Passed |
| do | 10.00 | 10.03 | Passed |
| do | 10.00 | 10.22 | Passed |
| Carbola Chemical Company, Inc. | | | |
| CCC 50% Wettable DDT Powder | | | |
| DDT | 50.00 | 53.57 | Passed |
| C. B. Drug Company | | | |
| C-B 5% DDT Surface Spray | | | |
| DDT | 5.00 | 3.89 | Deficient |
| Central Chemical Corp. (Now: Lebanon Chemical Corp.) | | | |
| Farmrite Hort Spray 50% DDT | | | |
| DDT | 50.00 | 50.71 | Passed |
| Daly-Herring Company | | | |
| Dee Aitch Spray—DDT 25% | | | |
| DDT | 25.00 | 25.50 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| E. I. du Pont de Nemours & Co. | | | |
| Du Pont 50% DDT Wettable Powder | | | |
| DDT | 50.00 | 52.13 | Passed |
| Farmers Cooperative Exchange, Inc. | | | |
| F.C.X. 5% DDT Dust | | | |
| DDT | 5.00 | 5.18 | Passed |
| do | 5.00 | 5.36 | Passed |
| do | 5.00 | 5.07 | Passed |
| do | 5.00 | 5.00 | Passed |
| do | 5.00 | 5.86 | Passed |
| do | 5.00 | 5.45 | Passed |
| do | 5.00 | 4.86 | Passed |
| F.C.X. 50% Wettable DDT Powder | | | |
| DDT | 50.00 | 53.57 | Passed |
| do | 50.00 | 52.14 | Passed |
| do | 50.00 | 49.28 | Passed |
| Geigy Agricultural Chemicals | | | |
| Geigy 5% DDT Dust | | | |
| DDT | 5.00 | 5.71 | Passed |
| General Chemical Division, Allied Chemical and Dye Corp. | | | |
| Genitox S-50—50% DDT Spray Powder | | | |
| DDT | 50.00 | 49.28 | Passed |
| do | 50.00 | 52.88 | Passed |
| Graham Chemical Company | | | |
| Red Star 5% DDT Dust | | | |
| DDT | 5.00 | 6.39 | Passed |
| do | 5.00 | 5.89 | Passed |
| do | 5.00 | 5.07 | Passed |
| Gulf Oil Corporation | | | |
| Gulf Trak Moth Spray | | | |
| DDT | 6.00 | 6.00 | Passed |
| Lebanon Chemical Corp. | | | |
| Farmrite DDT Emulsion Concentrate 25% | | | |
| DDT | 25.00 | 24.66 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| Mathieson Chemical Corp. (Now: Olin Mathieson Chemical Corp.) | | | |
| Mathieson 5% DDT Dust | | | |
| DDT | 5.00 | 5.25 | Passed |
| Mathieson 10% DDT Dust | | | |
| DDT | 10.00 | 10.86 | Passed |
| Mathieson 50% DDT Powder | | | |
| DDT | 50.00 | 47.86 | Passed |
| Maxwell Insecticide Company, Inc. | | | |
| Maxwell Insecticides M-5 5% DDT Dust | | | |
| DDT | 5.00 | 5.00 | Passed |
| do | 5.00 | 4.89 | Passed |
| do | 5.00 | 4.96 | Passed |
| Naco Fertilizer Company (Now: Davison Chemical Company) | | | |
| Naco 5% DDT Dust | | | |
| DDT | 5.00 | 5.00 | Passed |
| do | 5.00 | 4.86 | Passed |
| do | 5.00 | 5.14 | Passed |
| do | 5.00 | 5.18 | Passed |
| do | 5.00 | 4.64 | Deficient |
| Naco 10% DDT Dust | | | |
| DDT | 10.00 | 9.72 | Passed |
| Niagara Chemical Division (Food Machinery and Chemical Corp.) | | | |
| Niagara DDT 50 Spray | | | |
| DDT | 50.00 | 51.05 | Passed |
| do | 50.00 | 50.71 | Passed |
| Olin Mathieson Chemical Corp. | | | |
| Mathieson 5% DDT Dust | | | |
| DDT | 5.00 | 5.00 | Passed |
| W. R. Peele Company, Inc. | | | |
| Pelco 5% DDT Dust | | | |
| DDT | 5.00 | 5.00 | Passed |
| do | 5.00 | 5.21 | Passed |
| do | 5.00 | 5.07 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| Pennsylvania Salt Manufacturing Company | | | |
| Penn-Salt Cattle Spray | | | |
| DDT | 50.00 | 52.14 | Passed |
| Seacoast Laboratories, Inc. | | | |
| Twin Light Nu Spray 50% DDT | | | |
| DDT | 50.00 | 50.00 | Passed |
| do | 50.00 | 49.28 | Passed |
| do | 50.00 | 50.71 | Passed |
| Sears, Roebuck and Company | | | |
| Cross Country Insect Spray 50% DDT | | | |
| DDT | 50.00 | 49.28 | Passed |
| do | 50.00 | 50.00 | Passed |
| Smith Seed and Feed Company | | | |
| Old Belt Tobacco Flea Beetle Dust 5% DDT | | | |
| DDT | 5.00 | 5.86 | Passed |
| do | 5.00 | 6.50 | Passed |
| do | 5.00 | 4.50 | Deficient |
| do | 5.00 | 3.46 | Deficient |
| do | 5.00 | 6.25 | Passed |
| Southern Agricultural Insecticides, Inc. | | | |
| SA-50 Brand 5% DDT Dust | | | |
| DDT | 5.00 | 4.86 | Passed |
| SA-50 Brand 10% DDT Dust | | | |
| DDT | 10.00 | 9.86 | Passed |
| do | 10.00 | 10.07 | Passed |
| do | 10.00 | 9.57 | Passed |
| Standard Fertilizer Company (Now: Olin Mathieson Chemical Corp.) | | | |
| Gro-More 5% DDT Dust | | | |
| DDT | 5.00 | 5.93 | Passed |
| do | 5.00 | 5.93 | Passed |
| Taylor Chemical Company | | | |
| Superkill 10% DDT Dust | | | |
| DDT | 10.00 | 10.36 | Passed |
| Superkill 25% DDT Solution (Miscible) | | | |
| DDT | 25.00 | 26.57 | Passed |
| do | 25.00 | 24.57 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|-----------|
| Tobacco By-Products and Chemical Corp. (Now: Diamond Black Leaf Company) | | | |
| "Black Leaf" 50% DDT Wettable Powder | | | |
| DDT | 50.00 | 49.14 | Passed |
| Woolfolk Chemical Works, Ltd. | | | |
| Security Brand 10% DDT Dust | | | |
| DDT | 10.00 | 10.00 | Passed |
| Security Brand 50% DDT (Wettable) | | | |
| DDT | 50.00 | 50.00 | Passed |
| Job P. Wyatt and Sons Company | | | |
| Wyatt's 5% DDT Dust | | | |
| DDT | 5.00 | 5.79 | Passed |
| do | 5.00 | 4.75 | Passed |
| do | 5.00 | 4.89 | Passed |
| DDT - ALLETHRIN - METHOXYCHLOR - METHYL NAPHTHALENES - ORGANIC THIOCYANATES | | | |
| Aerosol Company | | | |
| Aero Kill Insecticide Bomb | | | |
| DDT | 1.000 | | Present |
| Allethrin | 0.100 | | |
| Methoxychlor | 6.000 | | Present |
| Methyl naphthalenes | 6.000 | | |
| Beta butoxy beta thiocyanodiethyl ether | 1.000 | Present | Present |
| Theoretical chlorine | 0.808 | 0.830 | |
| DDT - ALLETHRIN - METHYL NAPHTHALENES - ORGANIC THIOCYANATES | | | |
| Bostwick Laboratories, Inc. | | | |
| Hep Aerosol Insect Killer | | | |
| DDT | 3.00 | 3.23 | Present |
| Allethrin | 0.10 | | |
| Methylated naphthalenes | 10.50 | Present | Present |
| Thanite | 1.00 | 1.21 | |
| Colonial Stores, Inc. | | | |
| Southern Manor Insecticide Aerosol Spray | | | |
| DDT | 2.000 | 1.900 | Present |
| Allethrin | 0.125 | | |
| Methylated naphthalenes | 5.000 | Present | Present |
| Beta butoxy beta thiocyanodiethyl ether | 1.000 | 1.450 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| La Salle Chemical Company | | | |
| Aerosol 690—Insect Killer Spray | | | |
| DDT | 2.00 | 1.91 | Passed |
| Allethrin | 0.10 | Present | |
| Methylated naphthalenes | 5.00 | Present | |
| Beta butoxy beta thiocyanodiethyl ether | 2.00 | 2.60 | |
| DDT - ALLETHRIN - METHOXYCHLOR - ORGANIC THIOCYANATES | | | |
| D and A Company | | | |
| POW Insecticide Aerosol | | | |
| DDT | 2.00 | | Passed |
| Allethrin | 0.10 | Present | |
| Methoxychlor | 1.00 | | |
| Thanite | 1.00 | Present | |
| Theoretical chlorine | 1.31 | 1.36 | |
| DDT | 2.00 | | Passed |
| Allethrin | 0.10 | Present | |
| Methoxychlor | 1.00 | | |
| Thanite | 1.00 | Present | |
| Theoretical chlorine | 1.31 | 1.41 | |
| Wayne Wholesale Grocery Company | | | |
| Kills All Bomb | | | |
| DDT | 2.00 | | Passed |
| Allethrin | 0.10 | Present | |
| Methoxychlor | 1.00 | | |
| Thanite | 1.00 | 1.24 | |
| Theoretical chlorine | 1.31 | 1.38 | |
| DDT - ARAMITE - FERBAM - SULFUR | | | |
| Doggett-Pfeil Company | | | |
| D and P Bulb Saver | | | |
| DDT | 5.00 | | Deficient |
| 2-(p-tert-butyl phenoxy) isopropyl—2 chloroethyl sulfite | 1.00 | | |
| Ferric dimethyl dithiocarbamate | 7.00 | 6.50 | |
| Sulfur | 25.00 | 27.20 | |
| Theoretical chlorine | 2.60 | 2.57 | |
| DDT - COPPER | | | |
| Farmers Cooperative Exchange, Inc. | | | |
| F.C.X. Potato Dust | | | |
| DDT | 3.00 | 3.12 | Passed |
| Copper as metallic | 7.00 | 7.53 | |
| DDT | 3.00 | 3.04 | Passed |
| Copper as metallic | 7.00 | 6.92 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|----------------|
| Naco Fertilizer Company (Now: Davison Chemical Company) | | | |
| Naco 7% Copper and 3% DDT Dust | | | |
| DDT | 3.00 | 2.89 | Passed |
| Copper as metallic | 7.00 | 6.97 | |
| DDT | 3.00 | 3.30 | Passed |
| Copper as metallic | 7.00 | 6.71 | |
| W. R. Peele Company, Inc. | | | |
| Pelco 3% DDT 7% Copper Dust | | | |
| DDT | 3.00 | 3.07 | Passed |
| Copper as metallic | 7.00 | 7.59 | |
| Southern Agricultural Insecticides, Inc. | | | |
| SA-50 Brand Potato Dust with 5% DDT | | | |
| DDT | 5.00 | 5.36 | Passed |
| Copper as metallic | 6.50 | 6.99 | |
| DDT | 5.00 | 4.86 | Passed |
| Copper as metallic | 6.50 | 6.84 | |
| DDT | 5.00 | 5.21 | Passed |
| Copper as metallic | 6.50 | 6.86 | |
| Taylor Chemical Company | | | |
| Superkill Tomato Dust No. 10 | | | |
| DDT | 10.00 | 9.86 | Passed |
| Copper as metallic | 6.00 | 6.06 | |
| DDT | 10.00 | 9.57 | Passed |
| Copper as metallic | 6.00 | 5.90 | |
| DDT - COPPER - ZINC | | | |
| Parrot Chemical Company | | | |
| Lucky Strike Insecticide Fungicide | | | |
| DDT | 3.00 | 3.07 | Not registered |
| Copper as metallic | 4.30 | 4.15 | |
| Zinc as metallic | 1.10 | 1.03 | |
| DDT - FERBAM | | | |
| Farmers Cooperative Exchange, Inc. | | | |
| F.C.X. 11.4 Ferbam and 5% DDT Dust | | | |
| DDT | 5.00 | 5.00 | Passed |
| Ferric dimethyl dithiocarbamate | 11.40 | 11.52 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| W. R. Peele Company, Inc. | | | |
| Pelco 15% Fermate 3% DDT Dust | | | |
| DDT | 3.00 | 3.04 | Passed |
| Ferric dimethyl dithiocarbamate | 11.40 | 11.57 | |
| DDT - FERBAM - LEAD ARSENATE | | | |
| United Cooperatives, Inc. | | | |
| (Now: Farmers Cooperative Exchange, Inc.) | | | |
| Unico General Purpose Fruit Spray | | | |
| DDT | 10.00 | 10.14 | Passed |
| Ferric dimethyl dithiocarbamate | 11.40 | 10.90 | |
| Arsenic as metallic | 5.39 | 5.97 | Deficient |
| Arsenic—water soluble | 0.13 | 0.13 | |
| DDT | 10.00 | 10.14 | Deficient |
| Ferric dimethyl dithiocarbamate | 11.40 | 10.08 | |
| Lead Arsenate | 25.00 | 27.80 | Deficient |
| DDT | 10.00 | 10.29 | |
| Ferric dimethyl dithiocarbamate | 11.40 | 9.68 | Deficient |
| Arsenic as metallic | 5.39 | 5.60 | |
| Arsenic—water soluble | 0.13 | 0.13 | |
| DDT - FERBAM - SULFUR | | | |
| Farmers Cooperative Exchange, Inc. | | | |
| F.C.X. Rose Dust | | | |
| DDT | 5.00 | 5.50 | Deficient |
| Ferric dimethyl dithiocarbamate | 7.60 | 6.22 | |
| Sulfur | 75.00 | 69.27 | Passed |
| DDT | 5.00 | 5.64 | |
| Ferric dimethyl dithiocarbamate | 7.60 | 7.57 | Passed |
| Sulfur | 75.00 | 74.77 | |
| DDT - LEAD ARSENATE - SULFUR | | | |
| Niagara Chemical Division | | | |
| (Food Machinery and Chemical Corp.) | | | |
| Niagara Farm and Garden Brand | | | |
| Kolo Fruit Tree Dust or Spray | | | |
| DDT | 7.50 | 7.80 | Passed |
| Arsenic as metallic | 2.10 | 2.68 | |
| Arsenic—water soluble | 0.50 | 0.14 | Passed |
| Lead as metallic | 10.20 | 11.59 | |
| Sulfur | 52.00 | 56.10 | |
| B. G. Pratt Company | | | |
| Pratt's Fruit Tree Spray or Dust | | | |
| DDT | 7.50 | 8.05 | Passed |
| Arsenic as metallic | 2.10 | 2.66 | |
| Arsenic—water soluble (not more than).... | 0.50 | 0.27 | Passed |
| Lead as metallic | 10.00 | 10.90 | |
| Sulfur | 62.00 | 66.13 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--------------------------|------------------------|-------------------|-----------|
|--------------------------|------------------------|-------------------|-----------|

DDT - METHYL NAPHTHALENES - ORGANIC THIOCYANATES

Boyle-Midway, Inc.

Black Flag Insect Spray

| | | | |
|--|------|---------|--------|
| DDT | 5.00 | 5.56 | Passed |
| Methylated naphthalenes | 8.50 | Present | |
| Beta butoxy beta thiocyanodiethyl ether | 1.00 | Present | |

Rigo Manufacturing Company, Inc.

Kill-Ko 25% DDT Concentrate

| | | | |
|--|-------|---------|--------|
| DDT | 25.00 | 24.92 | Passed |
| Methylated naphthalenes | 55.00 | Present | |
| Beta butoxy beta thiocyanodiethyl ether | 1.07 | 1.50 | |
| DDT | 25.00 | 24.91 | Passed |
| Methylated naphthalenes | 55.00 | Present | |
| Beta butoxy beta thiocyanodiethyl ether | 1.07 | Present | |

DDT - METHYL NAPHTHALENES - PYRETHRINS - SESAME

Spirittine Chemical Company

Spirittine Insect Destroyer

| | | | |
|-------------------------------|--------|---------|-----------|
| DDT | 5.000 | 4.260 | Deficient |
| Methylated naphthalenes | 11.300 | Present | |
| Pyrethrins | 0.025 | 0.029 | |
| Sesame oil extractives | 0.120 | Present | |

DDT - ORGANIC THIOCYANATES

Rigo Manufacturing Company, Inc.

Kill-Ko Flea and Insect Powder with 10% DDT

| | | | |
|--|-------|---------|--------|
| DDT | 10.00 | 10.14 | Passed |
| Beta beta dithiocyanodiethyl ether | 0.50 | Present | |

DDT - ORGANIC THIOCYANATES - SULFUR

Dr. Salsbury's Laboratories

Dr. Salsbury's Louse Powder

| | | | |
|--|-------|---------|--------|
| DDT | 2.00 | 2.07 | Passed |
| Beta beta dithiocyanodiethyl ether | 1.35 | Present | |
| Sulfur | 30.00 | 30.62 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--------------------------|------------------------|-------------------|-----------|
|--------------------------|------------------------|-------------------|-----------|

DDT - PARATHION - SULFUR**California Spray-Chemical Corp.****Persistophos-S 5-1.5-25 Dust**

| | | | |
|-----------------|-------|-------|--------|
| DDT | 5.00 | 4.93 | Passed |
| Parathion | 1.50 | 1.45 | |
| Sulfur | 25.00 | 24.81 | |
| DDT | 5.00 | 5.00 | Passed |
| Parathion | 1.50 | 1.75 | |
| Sulfur | 25.00 | 27.03 | |

Southern Agricultural Insecticides, Inc.**SA-50 Brand 1 1/2% Parathion Dust with
5% DDT**

| | | | |
|-----------------|-------|-------|--------|
| DDT | 5.00 | 5.21 | Passed |
| Parathion | 1.50 | 1.79 | |
| Sulfur | 25.00 | 27.57 | |
| DDT | 5.00 | 5.21 | Passed |
| Parathion | 1.50 | 1.57 | |
| Sulfur | 25.00 | 26.85 | |

DDT - PIPERONYL BUTOXIDE - PYRETHRINS**Ralston Purina Company****Purina Home Spray**

| | | | |
|--------------------------|------|------|--------|
| DDT | 5.00 | 5.01 | Passed |
| Piperonyl butoxide | 0.19 | 0.19 | |
| Pyrethrins | 0.04 | 0.07 | |

DDT - PYRETHRINS**Dr. L. D. LeGear Medicine Company****Dr. LeGear's Flea and Tick Powder**

| | | | |
|------------------|-------|-------|--------|
| DDT | 10.00 | 11.00 | Passed |
| Pyrethrins | 0.50 | 0.56 | |

DDT - PYRETHRINS - SESAME**Klinzmoth Chemical Corp.****(Now: Purepac Corporation)****Ridsect Powder**

| | | | |
|------------------------------|-------|---------|--------|
| DDT | 10.00 | 10.570 | Passed |
| Pyrethrins | 0.080 | 0.078 | |
| Sesame oil extractives | 0.300 | Present | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|-----------|
| DDT - ZINEB | | | |
| Naco Fertilizer Company (Now: Davison Chemical Company) | | | |
| Naco 6% Dithane Z-78 and 5% DDT | | | |
| DDT | 5.00 | 5.61 | Passed |
| Zinc ethylene bisdithiocarbamate | 3.90 | 4.68 | |
| DDT | 5.00 | 5.07 | Passed |
| Zinc ethylene bisdithiocarbamate | 3.90 | 4.30 | |
| ENDRIN | | | |
| Carolina Chemicals, Inc. | | | |
| Flight Brand Endrin Dust | | | |
| Endrin | 1.50 | 1.63 | Passed |
| Coastal Chemical Corp. | | | |
| 1.5% Endrin Dust | | | |
| Endrin | 1.50 | 1.75 | Passed |
| Farmers Cooperative Exchange, Inc. | | | |
| F.C.X. 1½% Endrin Dust | | | |
| Endrin | 1.50 | 1.75 | Passed |
| do | 1.50 | 1.73 | Passed |
| do | 1.50 | 1.74 | Passed |
| do | 1.50 | 1.59 | Passed |
| Farm Service Company | | | |
| Champion Chemicals Endrin Emulsible Concentrate | | | |
| Endrin | 19.50 | 20.99 | Passed |
| Maxwell Insecticide Company, Inc. | | | |
| Maxwell 1½% Endrin Dust | | | |
| Endrin | 1.50 | 1.93 | Passed |
| Olin Mathieson Chemical Corp. | | | |
| Mathieson Endrin 1.5% Dust | | | |
| Endrin | 1.50 | 1.73 | Passed |
| Mathieson Endrin Emulsible Concentrate | | | |
| Endrin | 19.50 | 21.27 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|-----------|
| W. R. Peele Company, Inc. | | | |
| Pelco 1% Endrin Dust | | | |
| Endrin | 1.00 | 1.36 | Passed |
| do | 1.00 | 1.11 | Passed |
| do | 1.00 | 1.38 | Passed |
| Pelco Endrin Emulsifiable Concentrate | | | |
| Endrin | 19.50 | 19.98 | Passed |
| Planters Chemical Corp. | | | |
| Planters 1½% Endrin Dust | | | |
| Endrin | 1.50 | 1.72 | Passed |
| do | 1.50 | 1.53 | Passed |
| do | 1.50 | 1.73 | Passed |
| do | 1.50 | 1.66 | Passed |
| do | 1.50 | 1.73 | Passed |
| Stauffer Chemical Company | | | |
| Endrin Dust 2 | | | |
| Endrin | 2.00 | 2.60 | Passed |
| do | 2.00 | 2.43 | Passed |
| Taylor Chemical Company | | | |
| Superkill 1½% Endrin Dust | | | |
| Endrin | 1.50 | 1.69 | Passed |
| do | 1.50 | 1.79 | Passed |
| do | 1.50 | 1.69 | Passed |
| ETHYLENE DICHLORIDE - CARBON TETRACHLORIDE | | | |
| United Cooperatives, Inc. (Now: Farmers Cooperative Exchange, Inc.) | | | |
| Unico Grain Fumigant | | | |
| Ethylene dichloride | 70.00 | 71.50 | Passed |
| Carbon tetrachloride | 30.00 | 28.50 | |
| Ethylene dichloride | 70.00 | 69.87 | Passed |
| Carbon tetrachloride | 30.00 | 30.13 | |
| Ethylene dichloride | 70.00 | 70.20 | Passed |
| Carbon tetrachloride | 30.00 | 29.80 | |
| Ethylene dichloride | 70.00 | 71.19 | Passed |
| Carbon tetrachloride | 30.00 | 28.81 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|-----------|
| FERBAM | | | |
| California Spray-Chemical Corp. | | | |
| Ortho Nu-Leaf 15 Dust | | | |
| Ferric dimethyl dithiocarbamate | 11.40 | 11.44 | Passed |
| Cape Fear Chemicals, Inc. | | | |
| Tiger Brand 15% Fermate Dust | | | |
| Ferric dimethyl dithiocarbamate | 11.40 | 10.51 | Deficient |
| do | 11.40 | 11.23 | Passed |
| do | 11.40 | 11.10 | Passed |
| do | 11.40 | 11.86 | Passed |
| Carter Insecticide & Chemical Company | | | |
| Carter Carolina Brand Ferbam Dust | | | |
| Ferric dimethyl dithiocarbamate | 11.40 | 11.14 | Passed |
| Davison Chemical Company | | | |
| Naco Ferbam Dust | | | |
| Ferric dimethyl dithiocarbamate | 11.40 | 11.23 | Passed |
| E. I. du Pont de Nemours & Co. | | | |
| Du Pont Fermate Fungicide | | | |
| Ferric dimethyl dithiocarbamate | 76.00 | 75.92 | Passed |
| do | 76.00 | 76.15 | Passed |
| Farmers Cooperative Exchange, Inc. | | | |
| F.C.X. Ferbam Dust No. 10 | | | |
| Ferric dimethyl dithiocarbamate | 11.40 | 11.17 | Passed |
| do | 11.40 | 11.52 | Passed |
| do | 11.40 | 11.65 | Passed |
| do | 11.40 | 10.90 | Passed |
| do | 11.40 | 11.44 | Passed |
| do | 11.40 | 11.74 | Passed |
| do | 11.40 | 11.95 | Passed |
| do | 11.40 | 11.13 | Passed |
| do | 11.40 | 11.14 | Passed |
| do | 11.40 | 11.78 | Passed |
| Geigy Agricultural Chemicals | | | |
| Geigy Ferbam Dust for Tobacco Blue Mold | | | |
| Ferric dimethyl dithiocarbamate | 11.40 | 11.27 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|-----------|
| Graham Chemical Company | | | |
| Graham's Red Star "Ferbam" Dust | | | |
| Ferric dimethyl dithiocarbamate | 11.40 | 12.15 | Passed |
| do | 11.40 | 11.44 | Passed |
| do | 11.40 | 11.44 | Passed |
| do | 11.40 | 11.02 | Passed |
| do | 11.40 | 11.40 | Passed |
| do | 11.40 | 11.02 | Passed |
| do | 11.40 | 11.94 | Passed |
| do | 11.40 | 11.10 | Passed |
| do | 11.40 | 11.94 | Passed |
| do | 11.40 | 11.66 | Passed |
| Johnson Cotton Company, Inc. | | | |
| Southern Quality 15% Fermate Dust | | | |
| Ferric dimethyl dithiocarbamate | 11.40 | 11.86 | Passed |
| Lebanon Chemical Corp. | | | |
| Lebanon F-15 (Contains Ferbam) | | | |
| Ferric dimethyl dithiocarbamate | 11.40 | 11.74 | Passed |
| Maxwell Insecticide Company, Inc. | | | |
| Maxwell Insecticide 15% "Fermate" Dust | | | |
| Ferric dimethyl dithiocarbamate | 11.40 | 11.61 | Passed |
| do | 11.40 | 11.23 | Passed |
| do | 11.40 | 11.23 | Passed |
| do | 11.40 | 11.44 | Passed |
| do | 11.40 | 11.65 | Passed |
| Naco Fertilizer Company (Now: Davison Chemical Company) | | | |
| Naco 15% Fermate Dust | | | |
| Ferric dimethyl dithiocarbamate | 11.40 | 11.64 | Passed |
| do | 11.40 | 11.23 | Passed |
| do | 11.40 | 11.95 | Passed |
| do | 11.40 | 11.86 | Passed |
| T. W. R. Peele Company, Inc. | | | |
| Pelco 15% Fermate Dust | | | |
| Ferric dimethyl dithiocarbamate | 11.40 | 10.27 | Deficient |
| do | 11.40 | 9.40 | Deficient |
| do | 11.40 | 11.65 | Passed |
| do | 11.40 | 11.86 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| Pelco 15% Fermate Dust (Continued) | | | |
| Ferric dimethyl dithiocarbamate | 11.40 | 11.14 | Passed |
| do | 11.40 | 11.44 | Passed |
| do | 11.40 | 11.65 | Passed |
| do | 11.40 | 11.57 | Passed |
| do | 11.40 | 11.57 | Passed |
| Southern Agricultural Chemicals, Inc. | | | |
| Royal Brand 15% Fermate Dust | | | |
| Ferric dimethyl dithiocarbamate | 11.40 | 11.51 | Passed |
| Southern Agricultural Insecticides, Inc. | | | |
| SA-50 Brand 15% Fermate Dust | | | |
| Ferric dimethyl dithiocarbamate | 11.40 | 11.75 | Passed |
| Taylor Chemical Company | | | |
| Taylor Superkill 11.40% Ferbam Dust | | | |
| Ferric dimethyl dithiocarbamate | 11.40 | 11.94 | Passed |
| Woolfolk Chemical Works, Ltd. | | | |
| Security Brand Ferbam Dust | | | |
| Ferric dimethyl dithiocarbamate | 11.40 | 11.44 | Passed |
| do | 11.40 | 11.74 | Passed |
| do | 11.40 | 11.48 | Passed |
| do | 11.40 | 11.27 | Passed |
| do | 11.40 | 11.77 | Passed |
| Job P. Wyatt & Sons Company | | | |
| Wyatt's 15% Fermate Dust | | | |
| Ferric dimethyl dithiocarbamate | 11.40 | 11.65 | Passed |
| FERBAM - PARATHION | | | |
| Farmers Cooperative Exchange, Inc. | | | |
| F.C.X. 11.4 Ferbam & 1% Parathion | | | |
| Ferric dimethyl dithiocarbamate | 11.40 | 11.31 | Passed |
| Parathion | 1.00 | 1.03 | |
| FERBAM - SULFUR | | | |
| E. I. du Pont de Nemours & Co. | | | |
| Du Pont Rose Dust | | | |
| Ferric dimethyl dithiocarbamate | 8.75 | 9.60 | Passed |
| Sulfur | 84.87 | 85.80 | |
| Ferric dimethyl dithiocarbamate | 8.75 | 9.81 | Passed |
| Sulfur | 84.87 | 85.10 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| FLUORINE COMPOUNDS | | | |
| SODIUM FLUOALUMINATE | | | |
| Aluminum Company of America | | | |
| Alcoa Cryolite | | | |
| Sodium fluoaluminate | 90.00 | 91.66 | Passed |
| do | 90.00 | 90.53 | Passed |
| SODIUM - FLUORIDE | | | |
| Chicago Insecticide Laboratory (Now: Heller Laboratories, Inc.) | | | |
| \$1,000.00 Guaranteed Ant-Bane | | | |
| Sodium fluoride | 81.00 | 81.82 | Passed |
| McKesson & Robbins, Inc. | | | |
| Sodium Fluoride | | | |
| Sodium fluoride | 90.00 | 92.80 | Passed |
| C. U. McClellan Laboratories, Inc. | | | |
| McClellans Sodium Fluoride | | | |
| Sodium fluoride | 95.00 | 95.00 | Passed |
| Edgar A. Murray Company | | | |
| Edgar A. Murray's Roach Doom | | | |
| Sodium fluoride | 60.00 | 94.90 | Passed |
| SODIUM FLUORIDE - CHLORDANE | | | |
| Chicago Insecticide Laboratory (Now: Heller Laboratories, Inc.) | | | |
| Ant Bane | | | |
| Sodium fluoride | 50.00 | 51.20 | Passed |
| Chlordane | 2.00 | 2.00 | |
| ZINC SILICOFLUORIDE - THIOCARBAMIDE | | | |
| Berlou Manufacturing Company | | | |
| Berlou Moth Spray | | | |
| Zinc silicofluoride | 1.00 | 1.56 | Passed |
| Thiocarbamide | 0.50 | 0.51 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--------------------------|------------------------|-------------------|-----------|
|--------------------------|------------------------|-------------------|-----------|

HEPTACHLOR - DDT**Olin Mathieson Chemical Corp.****Mathieson 2.5-5-0 Cotton Dust Heptachlor**

| | | | |
|----------------------------|------|------|--------|
| Heptachlor | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 4.78 | 4.68 | |

Taylor Chemical Company**Superkill 2½% Heptachlor Cotton Dust**

| | | | |
|----------------------------|------|------|--------|
| Heptachlor | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 4.78 | 4.93 | |

| | | | |
|----------------------------|------|------|--------|
| Heptachlor | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 4.78 | 4.93 | |

| | | | |
|----------------------------|------|------|--------|
| Heptachlor | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 4.78 | 6.08 | |

Superkill 2½%-10-0 Heptachlor Cotton Dust

| | | | |
|----------------------------|-------|------|--------|
| Heptachlor | 2.50 | | Passed |
| DDT | 10.00 | | |
| Theoretical chlorine | 7.28 | 7.10 | |

HEPTACHLOR - DDT - SULFUR**Taylor Chemical Company****Superkill 2½%-5-40 Heptachlor Cotton Dust**

| | | | |
|----------------------------|-------|-------|--------|
| Heptachlor | 2.50 | | Passed |
| DDT | 5.00 | | |
| Theoretical chlorine | 4.78 | 4.79 | |
| Sulfur | 40.00 | 40.08 | |

LIME - SULFUR**Taylor Chemical Company****Superkill Lime Sulfur Solution**

| | | | |
|----------------------------|-------|-------|--------|
| Calcium polysulfides | 29.00 | 30.16 | Passed |
| Calcium thiosulfate | 1.00 | 1.80 | |

| | | | |
|----------------------------|-------|-------|--------|
| Calcium polysulfides | 29.00 | 30.21 | Passed |
| Calcium thiosulfate | 1.00 | 1.80 | |

**Tobacco By-Products and Chemical Corp.
(Now: Diamond Black Leaf Company)****"Black Leaf" Lime Sulfur Spray**

| | | | |
|----------------------------|-------|-------|--------|
| Calcium polysulfides | 26.00 | 27.70 | Passed |
|----------------------------|-------|-------|--------|

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|----------------|
| MALATHION | | | |
| Acme Quality Paints, Inc. | | | |
| Acme Fly Bait | | | |
| Malathion | 2.00 | 1.95 | Passed |
| Acme 50% Malathion Spray | | | |
| Malathion | 50.00 | 55.83 | Passed |
| do | 50.00 | 55.65 | Passed |
| Black Panther Company, Inc. | | | |
| Black Panther Fly Bits | | | |
| Malathion | 2.00 | 1.96 | Passed |
| do | 2.00 | 1.46 | Deficient |
| California Spray-Chemical Corp. | | | |
| Ortho Fly Killer Dry Bait (contains Malathion) | | | |
| Malathion | 2.00 | 2.65 | Passed |
| Ortho Malathion 4 Dust | | | |
| Malathion | 4.00 | 4.01 | Passed |
| Cape Fear Chemicals, Inc. | | | |
| Tiger Brand 4% Malathion Dust | | | |
| Malathion | 4.00 | 3.74 | Deficient |
| do | 4.00 | 2.82 | Deficient |
| do | 4.00 | 3.58 | Deficient |
| Carbola Chemical Company, Inc. | | | |
| Carbola Fly Bait | | | |
| Malathion | 2.00 | 2.15 | Passed |
| C. B. Drug Company | | | |
| C-B Fly Lure | | | |
| Malathion | 1.00 | 1.28 | Passed |
| do | 1.00 | 1.30 | Passed |
| do | 1.00 | 0.76 | Deficient |
| Chemical Formulators, Inc. | | | |
| Chemform 5% Malathion Dust | | | |
| Malathion | 5.00 | 4.90 | Not registered |
| do | 5.00 | 4.75 | Not registered |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| Eagle Products Company | | | |
| Spray-Kill Fly Crumbs | | | |
| Malathion | 1.00 | 1.05 | Passed |
| do | 1.00 | 1.49 | Passed |
| Spray-Kill Fly Crumbs | | | |
| Malathion | 3.50 | 3.45 | Passed |
| do | 3.50 | 4.22 | Passed |
| do | 3.50 | 2.71 | Deficient |
| Farmers Cooperative Exchange, Inc. | | | |
| Unico Fly Flakes | | | |
| Malathion | 1.00 | 1.39 | Passed |
| F.C.X. 5% Malathion Dust | | | |
| Malathion | 5.00 | 4.80 | Passed |
| Florida Agricultural Supply Company | | | |
| Fasco Fly Flakes | | | |
| Malathion | 1.00 | 1.30 | Passed |
| do | 1.00 | 1.30 | Passed |
| do | 1.00 | 1.27 | Passed |
| Fasco Malathion 25-WP | | | |
| Malathion | 25.00 | 26.28 | Passed |
| Graham Chemical Company | | | |
| Red Star Fly Crystals | | | |
| Malathion | 2.00 | 2.01 | Passed |
| do | 2.00 | 2.07 | Passed |
| Naco Fertilizer Company (Now: Davison Chemical Company) | | | |
| Naco 4% Malathion & 50% Sulfur Dust | | | |
| Malathion | 4.00 | 4.26 | Passed |
| Pearson & Company | | | |
| Green Devil Dust 5% Malathion | | | |
| Malathion | 5.00 | 4.92 | Passed |
| do | 5.00 | 4.85 | Passed |
| Ralston Purina Company | | | |
| Purina Fly Bait Dry Killer | | | |
| Malathion | 2.00 | 2.21 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| Rigo Manufacturing Company, Inc. | | | |
| Kill-Ko Fly Bait | | | |
| Malathion | 1.00 | 1.14 | Passed |
| do | 1.00 | 1.60 | Passed |
| Kill-Ko Fly Bait | | | |
| Malathion | 2.00 | 1.63 | Deficient |
| Swift & Company | | | |
| End-O-Pest Garden Spray | | | |
| Malathion | 50.00 | 52.39 | Passed |
| Tobacco By-Products & Chemical Corp. (Now: Diamond Black Leaf Company) | | | |
| "Black Leaf" 50% Malathion Spray | | | |
| Malathion | 50.00 | 53.83 | Passed |
| MALATHION - METHYLATED NAPHTHALENES | | | |
| E. I. du Pont de Nemours & Co. | | | |
| Du Pont Aphid & Mite Spray | | | |
| Malathion | 50.00 | 54.48 | Passed |
| Methylated naphthalenes | 39.00 | Present | |
| MALATHION - SULFUR | | | |
| Farmers Cooperative Exchange, Inc. | | | |
| F.C.X. 5% Malathion Dust with 40% Sulfur | | | |
| Malathion | 5.00 | 4.92 | Passed |
| Sulfur | 40.00 | 39.88 | |
| Mike, Inc. | | | |
| 101 Brand Malathion Dust with Sulfur | | | |
| Malathion | 4.00 | 3.81 | Passed |
| Sulfur | 18.00 | 18.89 | |
| Malathion | 4.00 | 4.17 | Passed |
| Sulfur | 18.00 | 19.23 | |
| Southern Agricultural Insecticides, Inc. | | | |
| SA-50 Brand Malathion Dust with 25% Sulfur | | | |
| Malathion | 4.00 | 4.25 | Passed |
| Sulfur | 25.00 | 25.44 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|-----------|
| SA-50 Brand Malathion Dust with 25% Sulfur (Continued) | | | |
| Malathion | 4.00 | 3.88 | Passed |
| Sulfur | 25.00 | 25.71 | |
| Malathion | 4.00 | 4.34 | Passed |
| Sulfur | 25.00 | 27.66 | |

METHOXYCHLOR**Southern Agricultural Insecticides, Inc.****SA-50 Brand 10% Marlate Dust**

| | | | |
|--------------------|------|------|--------|
| Methoxychlor | 5.00 | 5.79 | Passed |
| do | 5.00 | 5.86 | Passed |

METHOXYCHLOR - BHC - SULFUR**Ralston Purina Company****Purina Insect Killer**

| | | | |
|----------------------------|-------|-------|-----------|
| Methoxychlor | 2.50 | | Passed |
| Gamma isomer of BHC | 0.50 | | |
| Sulfur | 10.00 | 9.55 | |
| Theoretical chlorine | 1.13 | 1.39 | |
| Methoxychlor | 2.50 | 3.24 | Passed |
| Gamma isomer of BHC | 0.50 | 0.51 | |
| Sulfur | 10.00 | 12.40 | |
| Methoxychlor | 2.50 | | Passed |
| Gamma isomer of BHC | 0.50 | | |
| Sulfur | 10.00 | 10.89 | |
| Theoretical chlorine | 1.13 | 1.47 | |
| Methoxychlor | 2.50 | | Passed |
| Gamma isomer of BHC | 0.50 | | |
| Sulfur | 10.00 | 14.39 | |
| Theoretical chlorine | 1.13 | 1.43 | |
| Methoxychlor | 2.50 | | Deficient |
| Gamma isomer of BHC | 0.50 | 0.51 | |
| Sulfur | 10.00 | 8.77 | |
| Theoretical chlorine | 1.13 | 2.40 | |

METHOXYCHLOR - BHC - FERBAM - ZIRAM**California Spray-Chemical Corp.****Botano de-Luxe Garden Dust**

| | | | |
|---------------------------------------|------|------|--------|
| Methoxychlor | 5.00 | 4.80 | Passed |
| Gamma isomer of BHC | 1.00 | 1.04 | |
| Ferric dimethyl dithiocarbamate | 3.00 | 3.21 | |
| Zinc dimethyl dithiocarbamate | 3.00 | 4.90 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--------------------------|------------------------|-------------------|-----------|
|--------------------------|------------------------|-------------------|-----------|

METHOXYCHLOR - CAPTAN - MALATHION - SULFUR**Sears, Roebuck & Company****Cross Country Three-Way Dust**

| | | | |
|--------------------|------|------|--------|
| Methoxychlor | 5.00 | 5.10 | Passed |
| Captan | 5.00 | 5.28 | |
| Malathion | 4.00 | 3.99 | |
| Sulfur | 5.00 | 5.53 | |

METHOXYCHLOR - DDT**Cook Chemical Company****Real Kill Moth Proofer**

| | | | |
|----------------------------|------|---------|--------|
| Methoxychlor | 3.00 | Present | Passed |
| DDT | 5.00 | Present | |
| Theoretical chlorine | 3.42 | 3.92 | |

METHOXYCHLOR - FERBAM - SULFUR**E. I. du Pont de Nemours & Co.****Du Pont Fruit Tree Spray**

| | | | |
|---------------------------------------|-------|-------|--------|
| Methoxychlor | 12.50 | 14.48 | Passed |
| Ferric dimethyl dithiocarbamate | 15.20 | 16.10 | |
| Sulfur | 24.20 | 26.11 | |

METHOXYCHLOR - HEXACHLOROPHENE - MALATHION**Pet Products, Inc.****Holiday Flea Stop**

| | | |
|----------------------------|---------|------------|
| Methoxychlor | Present | Misbranded |
| Hexachlorophene | | |
| Malathion | 2.33 | |
| Theoretical chlorine | 0.355 | |

METHOXYCHLOR - ORGANIC THIOCYANATES - PIPERONYL BUTOXIDE - PYRETHRINS**California Spray-Chemical Corp.****Ortho Fly Spray**

| | | | |
|--------------------------|------|---------|--------|
| Methoxychlor | 0.50 | 0.61 | Passed |
| Piperonyl butoxide | 0.50 | 0.52 | |
| Pyrethrins | 0.05 | 0.08 | |
| Thanite | 0.30 | Present | |
| Methoxychlor | 0.50 | 0.59 | Passed |
| Piperonyl butoxide | 0.50 | 0.58 | |
| Pyrethrins | 0.05 | 0.078 | |
| Thanite | 0.30 | Present | |
| Methoxychlor | 0.50 | 0.61 | Passed |
| Piperonyl butoxide | 0.50 | 0.56 | |
| Pyrethrins | 0.05 | 0.061 | |
| Thanite | 0.30 | Present | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|-----------|
| Virginia-Carolina Chemical Corp. (Now: Diamond Black Leaf Company) | | | |
| "Black Leaf" Fly Spray | | | |
| Methoxychlor | 0.50 | 0.54 | Passed |
| Piperonyl butoxide | 0.10 | 0.095 | |
| Pyrethrins | 0.012 | 0.020 | |
| Thanite | 1.405 | Present | |

METHOXYCHLOR - PIPERONYL BUTOXIDE - PYRETHRINS**Gulf Oil Corporation**

Quick Action Gulf Spray

| | | | |
|--------------------------|------|-------|--------|
| Methoxychlor | 0.75 | 0.82 | Passed |
| Piperonyl butoxide | 0.12 | 0.14 | |
| Pyrethrins | 0.08 | 0.084 | |
| Methoxychlor | 0.75 | 0.70 | Passed |
| Piperonyl butoxide | 0.12 | 0.14 | |
| Pyrethrins | 0.08 | 0.07 | |

United Cooperatives

(Now: Farmers Cooperative Exchange, Inc.)

Unico Household Aerosol Spray

| | | | |
|--------------------------|------|------|--------|
| Methoxychlor | 3.00 | 3.26 | Passed |
| Piperonyl butoxide | 0.60 | 0.64 | |
| Pyrethrins | 0.24 | 0.24 | |

NICOTINE**Sears, Roebuck and Company**

Cross Country 40% Nicotine Sulfate

| | | | |
|----------------|-------|-------|--------|
| Nicotine | 40.00 | 41.77 | Passed |
|----------------|-------|-------|--------|

Tobacco By-Products & Chemical Corp.
(Now: Diamond Black Leaf Company)

Black Leaf 40

| | | | |
|----------------|-------|-------|--------|
| Nicotine | 40.00 | 40.40 | Passed |
|----------------|-------|-------|--------|

Virginia-Carolina Chemical Corp.
(Now: Diamond Black Leaf Company)

Nico-Fume Pressure Fumigator

| | | | |
|----------------|-------|-------|--------|
| Nicotine | 14.00 | 14.11 | Passed |
|----------------|-------|-------|--------|

NICOTINE - PYRIDINE**Gland-O-Lac Company**

Gland-O-Lac Roost Spread

| | | | |
|----------------|------|---------|--------|
| Nicotine | 9.00 | 9.31 | Passed |
| Pyridine | 2.50 | Present | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|-----------|
| PARADICHLOROBENZENE | | | |
| Judson Dunaway Corp. | | | |
| Expello Moth Crystals | | | |
| Paradichlorobenzene | 99.97 | 99.92 | Passed |
| do | 99.97 | 99.80 | Passed |
| PARATHION | | | |
| Cape Fear Chemicals, Inc. | | | |
| Tiger Brand 1% Parathion Dust | | | |
| Parathion | 1.00 | 1.02 | Passed |
| do | 1.00 | 1.01 | Passed |
| do | 1.00 | 1.01 | Passed |
| do | 1.00 | 0.80 | Deficient |
| Farmers Cooperative Exchange, Inc. | | | |
| F.C.X. 1% Parathion | | | |
| Parathion | 1.00 | 0.98 | Passed |
| Maxwell Insecticide Company, Inc. | | | |
| Maxwell 1% Parathion Dust | | | |
| Parathion | 1.00 | 1.09 | Passed |
| do | 1.00 | 0.98 | Passed |
| Naco Fertilizer Company (Now: Davison Chemical Company) | | | |
| Naco 1% Parathion Dust | | | |
| Parathion | 1.00 | 0.98 | Passed |
| Olin Mathieson Chemical Corp. | | | |
| Mathieson 1% Parathion Dust | | | |
| Parathion | 1.00 | 0.98 | Passed |
| do | 1.00 | 1.10 | Passed |
| do | 1.00 | 0.89 | Deficient |
| W. R. Peele Company, Inc. | | | |
| Pelco 1% Parathion Dust | | | |
| Parathion | 1.00 | 1.60 | Passed |
| Southern Agricultural Insecticides, Inc. | | | |
| SA-50 Brand 2% Parathion Dust | | | |
| Parathion | 2.00 | 2.23 | Passed |
| do | 2.00 | 2.30 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|-----------|
| Standard Fertilizer Company (Now: Olin Mathieson Chemical Corp.) | | | |
| Gro-More 1% Parathion Dust | | | |
| Parathion | 1.00 | 0.98 | Passed |
| Taylor Chemical Company | | | |
| Superkill 1% Parathion Dust | | | |
| Parathion | 1.00 | 1.41 | Passed |
| do | 1.00 | 1.25 | Passed |
| do | 1.00 | 1.07 | Passed |
| do | 1.00 | 1.16 | Passed |
| PARATHION - SULFUR | | | |
| California Spray-Chemical Corp. | | | |
| Vapophos-S 3.75-70 Wettable | | | |
| Parathion | 3.75 | 4.07 | Passed |
| Sulfur | 70.00 | 71.40 | |
| Parathion | 3.75 | 3.90 | Passed |
| Sulfur | 70.00 | 72.40 | |
| PHENOLS - BHC - NEUTRAL OILS | | | |
| Carbola Chemical Company, Inc. | | | |
| Carbola Disinfecting White Paint | | | |
| Phenols | 1.60 | 1.33 | Deficient |
| Gamma isomer of BHC | 0.335 | 0.42 | |
| Neutral oils | 1.40 | 1.72 | |
| Phenols | 1.60 | 1.63 | Passed |
| Gamma isomer of BHC | 0.335 | 0.40 | |
| Neutral oils | 1.40 | 1.76 | |
| Phenols | 1.60 | 1.63 | Passed |
| Gamma isomer of BHC | 0.335 | 0.30 | |
| Neutral oils | 1.40 | 1.60 | |
| Phenols | 1.60 | 1.83 | Passed |
| Gamma isomer of BHC | 0.335 | 0.346 | |
| Neutral oils | 1.40 | 2.12 | |
| Phenols | 1.60 | 1.53 | Passed |
| Gamma isomer of BHC | 0.335 | 0.282 | |
| Neutral oils | 1.40 | 2.28 | |
| Phenols | 1.60 | 2.24 | Passed |
| Gamma isomer of BHC | 0.335 | 0.35 | |
| Neutral oils | 1.40 | 1.88 | |
| Phenols | 1.60 | 1.53 | Passed |
| Gamma isomer of BHC | 0.335 | 0.38 | |
| Neutral oils | 1.40 | 2.30 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| Carbola Disinfecting White Paint (Continued) | | | |
| Phenols | 1.60 | 1.73 | Passed |
| Gamma isomer of BHC | 0.335 | 0.42 | |
| Neutral oils | 1.40 | 1.42 | |
| Phenols | 1.60 | 1.02 | Deficient |
| Gamma isomer of BHC | 0.335 | 0.355 | |
| Neutral oils | 1.40 | 1.17 | |
| Phenols | 1.60 | 1.43 | Deficient |
| Gamma isomer of BHC | 0.335 | 0.392 | |
| Neutral oils | 1.40 | 1.38 | |
| Phenols | 1.60 | 0.92 | Deficient |
| Gamma isomer of BHC | 0.335 | 0.65 | |
| Neutral oils | 1.40 | 1.59 | |
| Phenols | 1.60 | 0.71 | Deficient |
| Gamma isomer of BHC | 0.335 | 0.78 | |
| Neutral oils | 1.40 | 0.95 | |
| Phenols | 1.60 | 0.41 | Deficient |
| Gamma isomer of BHC | 0.335 | 0.323 | |
| Neutral oils | 1.40 | 0.83 | |
| Phenols | 1.60 | 1.33 | Deficient |
| Gamma isomer of BHC | 0.335 | 0.54 | |
| Neutral oils | 1.40 | 1.82 | |
| Phenols | 1.60 | 1.22 | Deficient |
| Gamma isomer of BHC | 0.335 | 0.335 | |
| Neutral oils | 1.40 | 1.02 | |
| Phenols | 1.60 | 1.33 | Deficient |
| Gamma isomer of BHC | 0.335 | 0.377 | |
| Neutral oils | 1.40 | 1.88 | |
| Phenols | 1.60 | 1.60 | Passed |
| Gamma isomer of BHC | 0.335 | 0.630 | |
| Neutral oils | 1.40 | 1.36 | |

Carbola, The Disinfecting White Paint

| | | | |
|---------------------------|------|------|----------------|
| Phenols | 1.60 | 1.58 | Deficient |
| Gamma isomer of BHC | 0.22 | 0.20 | Not registered |
| Malathion | 0.66 | 0.48 | |
| Neutral oils | 1.40 | 1.11 | |

PINE OIL**The Dill Company****Dil Fectol**

| | | | |
|----------------|-------|-------|--------|
| Pine Oil | 80.00 | 80.22 | Passed |
| Pine Oil | 80.00 | 81.32 | Passed |
| Soap | 10.00 | 9.54 | |

Milner Products Company**Pine-Sol**

| | | | |
|----------------|-------|-------|------------|
| Pine Oil | 77.00 | 78.50 | Misbranded |
| do | 77.00 | 78.90 | Misbranded |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|-----------|
| Rigo Manufacturing Company, Inc. | | | |
| Rigoes Pinegard Pine Oil Disinfectant and Deodorant | | | |
| Pine Oil | 81.00 | 81.60 | Passed |
| Texize Chemicals, Inc. | | | |
| Texize Pine Oil Disinfectant | | | |
| Pine Oil | 80.00 | 78.60 | Passed |
| PINE OIL - POTASSIUM CHLOROPHENYL PHENATE | | | |
| Boyle-Midway, Inc. | | | |
| Black Flag Pine Scent Disinfectant | | | |
| Pine oil | 8.90 | Present | Passed |
| Potassium chloro phenyl phenate | 5.40 | 5.25 | |
| Pine oil | 8.90 | Present | Passed |
| Potassium chloro phenyl phenate | 5.40 | 5.43 | |
| PYRETHRINS | | | |
| McCormick & Company, Inc. | | | |
| Bee Brand Insect Powder | | | |
| Pyrethrins | 0.75 | 0.79 | Passed |
| do | 0.75 | 0.79 | Passed |
| McLaughlin Gormley King Company | | | |
| Ever Green Garden Spray | | | |
| Pyrethrins | 1.40 | 1.38 | Passed |
| Ralston Purina Company | | | |
| Purina Home Spray | | | |
| Pyrethrins | 0.10 | 0.08 | Passed |
| PYRETHRINS - ALLETHRIN | | | |
| Boyle-Midway, Inc. | | | |
| Dwin | | | |
| Pyrethrins | 0.10 | Present | Passed |
| Allethrin | 0.40 | Present | |
| PYRETHRINS - PERFUME - SESAME | | | |
| The Dill Company | | | |
| Dill Spray | | | |
| Pyrethrins | 0.05 | 0.07 | Passed |
| Perfume | 0.25 | Present | |
| Sesame | 0.19 | Present | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| Dill Spray (Continued) | | | |
| Pyrethrins | 0.05 | 0.058 | Passed |
| Perfume | 0.25 | Present | |
| Sesame | 0.19 | Present | |
| PYRETHRINS - PIPERONYL BUTOXIDE | | | |
| The Dill Company | | | |
| Dill Spray Aerosol Insect Killer | | | |
| Pyrethrins | 0.25 | 0.24 | Passed |
| Piperonyl butoxide | 2.00 | 2.26 | |
| Douglas Chemical Company | | | |
| Douglas Special Mill Spray | | | |
| Pyrethrins | 0.14 | 0.12 | Passed |
| Piperonyl butoxide | 1.39 | 1.32 | |
| House of Huston, Inc. | | | |
| Tweet | | | |
| Pyrethrins | 0.06 | 0.08 | Passed |
| Piperonyl butoxide | 0.60 | 0.58 | |
| Petpack Products Company | | | |
| Petpack Cage & Aviary Spray | | | |
| Pyrethrins | 0.05 | 0.053 | Passed |
| Piperonyl butoxide | 0.40 | 0.40 | |
| Reefer-Galler, Inc. | | | |
| SLA Cedarized Spray | | | |
| Pyrethrins | 0.028 | 0.030 | Passed |
| Piperonyl butoxide | 0.241 | Present | |
| Tobacco By-Products & Chemical Corp. (Now: Diamond Black Leaf Company) | | | |
| "Black Leaf" Pyrenone Insect Killer | | | |
| Pyrethrins | 0.45 | 0.46 | Passed |
| Piperonyl butoxide | 1.125 | 1.250 | |
| PYRETHRINS - PIPERONYL CYCLONENE | | | |
| The R. T. French Company | | | |
| French's Bird Lice Powder | | | |
| Pyrethrins | 0.10 | 0.10 | Passed |
| Piperonyl cyclonene | 0.60 | Present | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|----------------|
| PYRETHRINS - SULFUR | | | |
| Geo. W. Clayton Company | | | |
| Dr. Clayton's Kill Flea Powder | | | |
| Pyrethrins | 0.23 | 0.29 | Not registered |
| Sulfur | 25.00 | 24.80 | |
| ROTENONE | | | |
| Acme Quality Paints, Inc. | | | |
| Acme Garden Guard 0.75% Rotenone | | | |
| Rotenone | 0.75 | 0.84 | Passed |
| Acme Garden Guard 1% Rotenone | | | |
| Rotenone | 1.00 | 0.96 | Passed |
| Acme White Lead and Color Works (Now: Acme Quality Paints, Inc.) | | | |
| Acme Rotenone Garden Guard | | | |
| Rotenone | 0.75 | 0.56 | Passed |
| Allied Chemical and Dye Corp. General Chemical Division, | | | |
| Orchard Brand "75" Dust | | | |
| Rotenone | 0.75 | 1.08 | Passed |
| California Spray-Chemical Corp. | | | |
| Ortho Botano—R 1 Dust | | | |
| Rotenone | 1.00 | 0.94 | Passed |
| Cape Fear Chemicals, Inc. | | | |
| Tiger Brand 1.0% Rotenone Dust | | | |
| Rotenone | 1.00 | 1.08 | Passed |
| do | 1.00 | 0.95 | Passed |
| do | 1.00 | 0.90 | Passed |
| do | 1.00 | 1.03 | Passed |
| do | 1.00 | 0.77 | Deficient |
| do | 1.00 | 0.43 | Deficient |
| do | 1.00 | 0.91 | Passed |
| do | 1.00 | 0.86 | Passed |
| do | 1.00 | 1.04 | Passed |
| do | 1.00 | 1.22 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| Cabola Chemical Company | | | |
| CCC Garden Rote | | | |
| Rotenone | 0.75 | 0.44 | Deficient |
| do | 0.75 | 0.48 | Deficient |
| do | 0.75 | 0.33 | Deficient |
| Carter Insecticide and Chemical Company | | | |
| Carolina Brand 1% Rotenone | | | |
| Rotenone | 1.00 | 1.48 | Passed |
| Central Chemical Corp. (Now: Lebanon Chemical Corp.) | | | |
| Lebanon Ro-Dust "100" 1% Rotenone | | | |
| Garden Dust | | | |
| Rotenone | 1.00 | 0.92 | Passed |
| Daly-Herring Company | | | |
| Dee Aitch 1.00% Rotenone Dust | | | |
| Rotenone | 1.00 | 0.99 | Passed |
| do | 1.00 | 1.03 | Passed |
| Farmers Cooperative Exchange, Inc. | | | |
| F.C.X. Rotex No. 100 | | | |
| Rotenone | 1.00 | 1.14 | Passed |
| do | 1.00 | 0.90 | Passed |
| do | 1.00 | 1.08 | Passed |
| do | 1.00 | 0.72 | Deficient |
| do | 1.00 | 0.91 | Passed |
| do | 1.00 | 1.03 | Passed |
| do | 1.00 | 0.99 | Passed |
| do | 1.00 | 1.05 | Passed |
| do | 1.00 | 0.88 | Passed |
| do | 1.00 | 0.99 | Passed |
| do | 1.00 | 1.19 | Passed |
| do | 1.00 | 1.22 | Passed |
| do | 1.00 | 0.88 | Passed |
| do | 1.00 | 0.93 | Passed |
| Dr. Hess and Clark, Inc. | | | |
| Dr. Hess Powdered Louse Killer | | | |
| Rotenone | 0.50 | 0.74 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|----------------|
| Lebanon Chemical Corp. | | | |
| Ro-Dust "100" 1% Rotenone Garden Dust | | | |
| Rotenone | 1.00 | 1.13 | Passed |
| do | 1.00 | 1.06 | Passed |
| Miller Chemical and Fertilizer Corp. | | | |
| V-75 A Dust containing Rotenone 0.75% | | | |
| Rotenone | 0.75 | 0.67 | Passed |
| do | 0.75 | 0.86 | Passed |
| do | 0.75 | 0.80 | Passed |
| Mathieson Chemical Corp. (Now: Olin Mathieson Chemical Company) | | | |
| Mathieson Rotenone 1% Dust | | | |
| Rotenone | 1.00 | 1.06 | Passed |
| Sears, Roebuck and Company | | | |
| Cross Country Insect Dust Containing Rotenone | | | |
| Rotenone | 0.75 | 0.71 | Passed |
| Whitmire Research Laboratories, Inc. | | | |
| Whitmire's Ticks-Off | | | |
| Rotenone (hydrogenated) | 0.108 | Present | Passed |
| Wonder Products Company | | | |
| Wonder Flea Powder | | | |
| Rotenone | 1.00 | 1.08 | Not registered |
| Woolfolk Chemical Works, Ltd. | | | |
| Security Brand 1% Rotenone Dust | | | |
| Rotenone | 1.00 | 1.00 | Passed |
| do | 1.00 | 1.06 | Passed |
| do | 1.00 | 1.08 | Passed |
| do | 1.00 | 0.95 | Passed |
| ROTENONE - ARAMITE - METHOXYCHLOR - ZINEB | | | |
| Bonnie Green Products Company | | | |
| Bonnie Green Multi-Purpose Flower and Garden Dust | | | |
| Rotenone | 0.75 | 0.61 | Passed |
| 2-(p-tert-butyl phenoxy) isopropyl- 2-chloroethyl sulfite | 1.00 | | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--------------------------|------------------------|-------------------|-----------|
|--------------------------|------------------------|-------------------|-----------|

Bonnie Green Multi-Purpose Flower and Garden Dust (Continued)

| | | | |
|--|------|------|--------|
| Methoxychlor | 5.00 | | |
| Zinc ethylene bisdithiocarbamate | 3.90 | 4.40 | |
| Theoretical chlorine | 1.65 | 1.78 | |
| Rotenone | 0.75 | 0.75 | Passed |
| 2-(p-tert-butyl phenoxy) isopropyl— 2-chloroethyl sulfite | 1.00 | | |
| Methoxychlor | 5.00 | | |
| Zinc ethylene bisdithiocarbamate | 3.90 | 4.30 | |
| Theoretical chlorine | 1.65 | 1.78 | |

ROTENONE - COPPER

J. M. Harris Company, Inc.

Copper Dragon Dust

| | | | |
|----------------------------|------|------|--------|
| Rotenone | 0.75 | 0.65 | Passed |
| Yellow cuprous oxide | 4.50 | 4.99 | |

ROTENONE - COPPER - DDT - MANGANESE SULFUR

Southern Agricultural Insecticides, Inc.

SA-50 Brand Pole Bean Dust

| | | | |
|--------------------------|-------|---------|-----------|
| Rotenone | 1.00 | 0.75 | Deficient |
| Copper as metallic | 3.00 | 2.99 | |
| DDT | 3.00 | 3.15 | |
| Manganese as Mn | 1.00 | Present | |
| Sulfur | 60.00 | 57.17 | |

ROTENONE - COPPER - ORGANIC THIOCYANATES

Carbola Chemical Company

CCC Copper Rote

| | | | |
|---|------|---------|--------|
| Rotenone | 0.40 | 0.26 | Passed |
| Copper as metallic | 6.00 | 6.25 | |
| Beta thiocyno ethyl esters of aliphatic fatty acids—10 to 18 carbon atoms .. | 0.75 | Present | |

Rigo Manufacturing Company, Inc.

Kill-Ko 3 in 1 Garden Dust

| | | | |
|---|------|---------|-----------|
| Rotenone | 0.40 | 0.17 | Deficient |
| Copper as metallic | 3.50 | 4.19 | |
| Beta thiocyno ethyl esters of aliphatic fatty acids—10 to 18 carbon atoms .. | 0.75 | Present | |
| Rotenone | 0.75 | 0.65 | Passed |
| Yellow cuprous oxide | 4.00 | 4.17 | |
| Beta thiocyno ethyl esters of aliphatic fatty acids—10 to 18 carbon atoms .. | 0.37 | Present | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|-----------|
| ROTENONE - COPPER - PIPERONYL CYCLONENE - PYRETHRINS | | | |
| Standard Fertilizer Company (Now: Olin Mathieson Chemical Corp.) | | | |
| Mathieson Gro-More Garden Dust | | | |
| Rotenone | 0.25 | 0.12 | Passed |
| Copper as metallic | 5.00 | 4.76 | |
| Piperonyl cyclonene | 0.50 | Present | |
| Pyrethrins | 0.05 | 0.06 | |
| ROTENONE - COPPER - SULFUR | | | |
| Hammond Paint and Chemical Company | | | |
| Hammond's Slug Shot | | | |
| Rotenone | 0.75 | 0.78 | Passed |
| Basic copper sulfate | 0.50 | 0.78 | |
| Sulfur | 8.00 | 10.32 | |
| ROTENONE - DDT - FERBAM - SULFUR - ZIRAM | | | |
| United Cooperatives, Inc. (Now: Farmers Cooperative Exchange, Inc.) | | | |
| Unico Floral Spray Powder | | | |
| Rotenone | 1.00 | Present | Passed |
| DDT | 5.00 | 5.00 | |
| Ferric dimethyl dithiocarbamate | 3.80 | 3.92 | |
| Sulfur | 30.00 | 29.02 | |
| Zinc dimethyl dithiocarbamate | 3.50 | 3.80 | |
| ROTENONE - DDT - ORGANIC THIOCYANATES SULFUR - ZINEB | | | |
| Rigo Manufacturing Company, Inc. | | | |
| Kill-Ko Floral Dust | | | |
| Rotenone | 1.00 | 0.90 | Deficient |
| DDT | 3.00 | 3.07 | |
| Beta thiocyno ethyl esters of aliphatic fatty acids—10 to 18 carbon atoms | 0.37 | Present | Present |
| Sulfur | 20.00 | 17.60 | |
| Zinc ethylene bisdithiocarbamate | 3.13 | 4.63 | |
| ROTENONE - DDT - SULFUR | | | |
| Graham Chemical Company | | | |
| Graham's Red Star Agricultural Rotenone Dust 1% DDT 3% | | | |
| Rotenone | 1.00 | 1.04 | Passed |
| DDT | 3.00 | 3.00 | |
| Sulfur | 15.00 | 18.60 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|-----------|
| Graham's Red Star Agricultural Rotenone Dust 1% DDT 3% (Continued) | | | |
| Rotenone | 1.00 | 0.86 | Passed |
| DDT | 3.00 | 3.37 | |
| Sulfur | 15.00 | 15.55 | |
| Rotenone | 1.00 | 0.99 | Passed |
| DDT | 3.00 | 3.04 | |
| Sulfur | 15.00 | 18.26 | |
| Rotenone | 1.00 | 1.07 | Passed |
| DDT | 3.00 | 2.93 | |
| Sulfur | 15.00 | 18.47 | |
| Rotenone | 1.00 | 0.93 | Passed |
| DDT | 3.00 | 3.37 | |
| Sulfur | 15.00 | 18.12 | |
| Rotenone | 1.00 | 1.04 | Passed |
| DDT | 3.00 | 3.71 | |
| Sulfur | 15.00 | 18.73 | |
| Rotenone | 1.00 | 1.21 | Passed |
| DDT | 3.00 | 3.45 | |
| Sulfur | 15.00 | 17.77 | |
| Rotenone | 1.00 | 0.83 | Passed |
| DDT | 3.00 | 3.90 | |
| Sulfur | 15.00 | 18.57 | |
| Rotenone | 1.00 | 1.22 | Passed |
| DDT | 3.00 | 3.27 | |
| Sulfur | 15.00 | 18.67 | |
| Rotenone | 1.00 | 1.17 | Passed |
| DDT | 3.00 | 3.45 | |
| Sulfur | 15.00 | 18.85 | |
| Rotenone | 1.00 | 1.29 | Passed |
| DDT | 3.00 | 3.30 | |
| Sulfur | 15.00 | 18.32 | |
| Rotenone | 1.00 | 1.16 | Passed |
| DDT | 3.00 | 3.15 | |
| Sulfur | 15.00 | 18.53 | |
| Rotenone | 1.00 | 0.98 | Passed |
| DDT | 3.00 | 2.85 | |
| Sulfur | 15.00 | 18.08 | |
| Rotenone | 1.00 | 0.90 | Passed |
| DDT | 3.00 | 3.19 | |
| Sulfur | 15.00 | 17.50 | |
| Rotenone | 1.00 | 1.05 | Deficient |
| DDT | 3.00 | 1.72 | |
| Sulfur | 15.00 | 20.68 | |
| Rotenone | 1.00 | 0.91 | Deficient |
| DDT | 3.00 | 2.52 | |
| Sulfur | 15.00 | 14.20 | |
| Rotenone | 1.00 | 0.87 | Deficient |
| DDT | 3.00 | 2.56 | |
| Sulfur | 15.00 | 14.34 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|-----------|
| Graham's Red Star Agricultural Rotenone Dust 1% DDT 3% | | (Continued) | |
| Rotenone | 1.00 | 0.80 | Deficient |
| DDT | 3.00 | 2.59 | |
| Sulfur | 15.00 | 14.10 | |
| Rotenone | 1.00 | 0.96 | Passed |
| DDT | 3.00 | 3.23 | |
| Sulfur | 15.00 | 19.48 | |
| Rotenone | 1.00 | 0.94 | Passed |
| DDT | 3.00 | 3.19 | |
| Sulfur | 15.00 | 17.23 | |
| Rotenone | 1.00 | 0.88 | Passed |
| DDT | 3.00 | 3.82 | |
| Sulfur | 15.00 | 18.11 | |
| Rotenone | 1.00 | 0.82 | Passed |
| DDT | 3.00 | 3.78 | |
| Sulfur | 15.00 | 17.37 | |
| Rotenone | 1.00 | 0.93 | Passed |
| DDT | 3.00 | 3.30 | |
| Sulfur | 15.00 | 18.88 | |
| Rotenone | 1.00 | 0.97 | Passed |
| DDT | 3.00 | 3.22 | |
| Sulfur | 15.00 | 15.44 | |
| Rotenone | 1.00 | 1.03 | Passed |
| DDT | 3.00 | 3.00 | |
| Sulfur | 15.00 | 18.90 | |
| Rotenone | 1.00 | 1.01 | Passed |
| DDT | 3.00 | 3.67 | |
| Sulfur | 15.00 | 19.76 | |
| Rotenone | 1.00 | 0.95 | Passed |
| DDT | 3.00 | 3.22 | |
| Sulfur | 15.00 | 19.27 | |

ROTENONE - DICHLOROPHENE - HEXACHLOROPHENE**The Hilo Company****Hilo Flea and Fungus Powder**

| | | | |
|----------------------------|------|------|--------|
| Rotenone | 1.20 | 1.34 | Passed |
| Dichlorophene | 0.50 | | |
| Hexachlorophene | 0.50 | | |
| Theoretical chlorine | 0.39 | 0.39 | |

ROTENONE - FERBAM - METHOXYCHLOR - SULFUR**E. I. du Pont de Nemours & Co.****Du Pont Floral Dust**

| | | | |
|---------------------------------------|-------|---------|--------|
| Rotenone | 0.75 | Present | Passed |
| Ferric dimethyl dithiocarbamate | 7.60 | 8.95 | |
| Methoxychlor | 5.00 | 6.08 | |
| Sulfur | 26.20 | 28.90 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--------------------------|------------------------|-------------------|-----------|
|--------------------------|------------------------|-------------------|-----------|

ROTENONE - FERBAM - METHOXYCHLOR - ZIRAM**Acme Quality Paints, Inc.****Acme All Round Dust**

| | | | |
|---------------------------------------|------|---------|--------|
| Rotenone | 0.75 | Present | Passed |
| Ferric dimethyl dithiocarbamate | 4.00 | 4.02 | |
| Methoxychlor | 5.00 | 4.83 | |
| Zinc dimethyl dithiocarbamate | 4.00 | 4.67 | |
| Rotenone | 0.75 | Present | Passed |
| Ferric dimethyl dithiocarbamate | 4.00 | 4.15 | |
| Methoxychlor | 5.00 | 4.79 | |
| Zinc dimethyl dithiocarbamate | 4.00 | 3.80 | |

**ROTENONE - FLUORINE - ORGANIC
THIOCYANATES - SULFUR****Carbola Chemical Company****CCC Louse Killer**

| | | | |
|--|-------|---------|--------|
| Rotenone | 0.40 | 0.36 | Passed |
| Sodium fluosilicate | 10.00 | 11.50 | |
| Beta thiocyno ethyl esters of aliphatic fatty acids—10 to 18 carbon atoms.. | 0.75 | Present | |
| Sulfur | 15.00 | 17.40 | |

ROTENONE - METHOXYCHLOR**Pratt Food Company****Pratt's Lice Killer**

| | | | |
|--------------------|------|------|--------|
| Rotenone | 1.00 | 1.16 | Passed |
| Methoxychlor | 0.50 | 0.63 | |

ROTENONE - METHOXYCHLOR - ZINEB**California Spray-Chemical Corp.****Ortho Vegetable Dust**

| | | | |
|--|------|------|--------|
| Rotenone | 0.75 | 0.60 | Passed |
| Methoxychlor | 5.00 | 5.95 | |
| Zinc ethylene bisdithiocarbamate | 5.20 | 6.70 | |

ROTENONE - ORGANIC THIOCYANATES - SULFUR**Black Panther Company, Inc.****Black Panther Dust**

| | | | |
|---|-------|---------|--------|
| Rotenone | 0.75 | 0.77 | Passed |
| Beta, beta dithiocyanodiethyl ether | 0.20 | Present | |
| Sulfur | 10.00 | 10.59 | |
| Rotenone | 0.75 | 0.80 | Passed |
| Beta, beta dithiocyanodiethyl ether | 0.20 | Present | |
| Sulfur | 10.00 | 11.24 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| Black Panther Dust (Continued) | | | |
| Rotenone | 0.75 | 0.70 | Passed |
| Beta, beta dithiocyanodiethyl ether | 0.20 | Present | |
| Sulfur | 10.00 | 10.48 | |
| Rotenone | 0.75 | 0.77 | Passed |
| Beta, beta dithiocyanodiethyl ether | 0.20 | Present | |
| Sulfur | 10.00 | 10.06 | |

General Insecticide Co., Inc.
(Now: Black Panther Company, Inc.)

Black Panther Dust

| | | | |
|---|-------|---------|--------|
| Rotenone | 0.75 | 0.62 | Passed |
| Beta, beta dithiocyanodiethyl ether | 0.20 | Present | |
| Sulfur | 10.00 | 11.54 | |
| Rotenone | 0.75 | 0.83 | Passed |
| Beta, beta dithiocyanodiethyl ether | 0.20 | Present | |
| Sulfur | 10.00 | 9.57 | |
| Rotenone | 0.75 | 0.72 | Passed |
| Beta, beta dithiocyanodiethyl ether | 0.20 | Present | |
| Sulfur | 10.00 | 10.63 | |

**ROTENONE - PIPERONYL CYCLONENE -
PYRETHRINS**

House of Huston, Inc.

Kitty Care Flea Powder

| | | | |
|---------------------------|--------|---------|--------|
| Rotenone | 0.3125 | 0.3567 | Passed |
| Piperonyl cyclonene | 0.6250 | Present | |
| Pyrethrins | 0.0625 | 0.0660 | |

**ROTENONE - PIPERONYL CYCLONENE -
PYRETHRINS - SULFUR**

Planters Chemical Corp.

Planters P.D.Q. Bean and Garden Dust

| | | | |
|---------------------------|-------|---------|--------|
| Rotenone | 0.40 | 0.34 | Passed |
| Piperonyl cyclonene | 0.37 | Present | |
| Pyrethrins | 0.03 | 0.037 | |
| Sulfur | 10.00 | 10.37 | |
| Rotenone | 0.40 | 0.39 | Passed |
| Piperonyl cyclonene | 0.37 | Present | |
| Pyrethrins | 0.03 | 0.036 | |
| Sulfur | 10.00 | 10.65 | |
| Rotenone | 0.40 | 0.31 | Passed |
| Piperonyl cyclonene | 0.37 | Present | |
| Pyrethrins | 0.03 | 0.039 | |
| Sulfur | 10.00 | 10.16 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|-----------|
| Planters P.D.Q. Bean and Garden Dust (Continued) | | | |
| Rotenone | 0.40 | 0.27 | Passed |
| Piperonyl cyclonene | 0.37 | Present | |
| Pyrethrins | 0.03 | 0.04 | |
| Sulfur | 10.00 | 10.86 | |
| Rotenone | 0.40 | 0.29 | Passed |
| Piperonyl cyclonene | 0.37 | Present | |
| Pyrethrins | 0.03 | 0.048 | |
| Sulfur | 10.00 | 10.17 | |
| Rotenone | 0.40 | 0.36 | Passed |
| Piperonyl cyclonene | 0.37 | Present | |
| Pyrethrins | 0.03 | 0.026 | |
| Sulfur | 10.00 | 9.76 | |
| Rotenone | 0.40 | 0.51 | Passed |
| Piperonyl cyclonene | 0.37 | Present | |
| Pyrethrins | 0.03 | 0.042 | |
| Sulfur | 10.00 | 10.56 | |
| Rotenone | 0.40 | 0.39 | Passed |
| Piperonyl cyclonene | 0.37 | Present | |
| Pyrethrins | 0.03 | 0.055 | |
| Sulfur | 10.00 | 9.83 | |

ROTENONE - PYRETHRINS - SULFUR**Carolina Chemicals, Inc.****Flight Brand 1.00% Rotenone**

| | | | |
|------------------|-------|-------|-----------|
| Rotenone | 1.00 | 0.81 | Passed |
| Pyrethrins | 0.03 | 0.034 | |
| Sulfur | 15.00 | 15.25 | |
| Rotenone | 1.00 | 0.73 | Deficient |
| Pyrethrins | 0.03 | 0.03 | |
| Sulfur | 15.00 | 14.72 | |
| Rotenone | 1.00 | 0.72 | Deficient |
| Pyrethrins | 0.03 | 0.028 | |
| Sulfur | 15.00 | 14.86 | |
| Rotenone | 1.00 | 0.79 | Deficient |
| Pyrethrins | 0.03 | 0.042 | |
| Sulfur | 15.00 | 14.25 | |

Southern Agricultural Insecticides, Inc.**SA-50 Grower Dust for Mexican Bean Beetle Control**

| | | | |
|------------------|-------|-------|--------|
| Rotenone | 0.50 | 0.64 | Passed |
| Pyrethrins | 0.08 | 0.08 | |
| Sulfur | 18.00 | 18.83 | |
| Rotenone | 0.50 | 0.67 | Passed |
| Pyrethrins | 0.08 | 0.065 | |
| Sulfur | 18.00 | 21.59 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| SA-50 Grower Dust for Mexican Bean Beetle (Continued) | | | |
| Rotenone | 0.50 | 0.49 | Passed |
| Pyrethrins | 0.08 | 0.072 | |
| Sulfur | 18.00 | 19.80 | |
| Rotenone | 0.50 | 0.59 | Passed |
| Pyrethrins | 0.08 | 0.078 | |
| Sulfur | 18.00 | 19.21 | |
| SA-50 Garden Dust for Mexican Bean Beetle Control | | | |
| Rotenone | 0.50 | 0.56 | Passed |
| Pyrethrins | 0.04 | 0.08 | |
| Sulfur | 18.00 | 18.86 | |
| SA-50 Brand SA 100 For Mexican Bean Beetle Control | | | |
| Rotenone | 1.00 | 0.95 | Passed |
| Pyrethrins | 0.08 | 0.068 | |
| Sulfur | 18.00 | 19.22 | |

ROTENONE - PYRETHRINS - SULFUR - ZINEB**Swift and Company****End-O-Pest 3 Way Garden Spray**

| | | | |
|--|-------|-------|--------|
| Rotenone | 1.00 | 0.89 | Passed |
| Pyrethrins | 0.10 | 0.12 | |
| Sulfur | 10.00 | 10.04 | |
| Zinc ethylene bisdithiocarbamate | 3.25 | 3.80 | |
| Rotenone | 1.00 | 0.95 | Passed |
| Pyrethrins | 0.10 | 0.10 | |
| Sulfur | 10.00 | 10.82 | |
| Zinc ethylene bisdithiocarbamate | 3.25 | 4.50 | |

ROTENONE - SULFUR**Apex Chemical Company****1% Rotenone Dust**

| | | | |
|----------------|-------|-------|--------|
| Rotenone | 1.00 | 0.94 | Passed |
| Sulfur | 15.00 | 14.80 | |

Black Panther Company, Inc.**Super Black Panther Dust or Spray
with Minerals**

| | | | |
|----------------|-------|-------|--------|
| Rotenone | 1.00 | 1.04 | Passed |
| Sulfur | 10.00 | 12.30 | |

Carbola Chemical Company**CCC Louse and Flea Killer**

| | | | |
|----------------|-------|-------|--------|
| Rotenone | 0.40 | 0.25 | Passed |
| Sulfur | 15.00 | 15.51 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|------------------------------------|------------------------|-------------------|------------|
| Farmers Cooperative Exchange, Inc. | | | |
| F.C.X. Rotox No. 100 | | | |
| Rotenone | 1.00 | 0.95 | Passed |
| Sulfur | 25.00 | 25.80 | |
| F.C.X. Cattlegrub and Louse Powder | | | |
| Rotenone | 1.60 | 1.53 | Passed |
| Sulfur | 45.00 | 43.60 | |
| Rotenone | 1.60 | 1.20 | Deficient |
| Sulfur | 45.00 | 43.60 | |
| Rotenone | 1.60 | 1.55 | Passed |
| Sulfur | 45.00 | 46.90 | |
| Globe Laboratories | | | |
| A-D-A Lice Powder | | | |
| Rotenone | 0.50 | 0.51 | Passed |
| Sulfur | 89.00 | 89.13 | |
| Graham Chemical Company | | | |
| Graham's Red Star 1% Rotenone | | | |
| Rotenone | 1.00 | 1.06 | Passed |
| Sulfur | 15.00 | 19.30 | |
| Rotenone | 1.00 | 1.01 | Passed |
| Sulfur | 15.00 | 20.15 | |
| Rotenone | 1.00 | 0.90 | Misbranded |
| Sulfur | 15.00 | 19.84 | |
| DDT (not listed on label) | | 3.56 | |
| J. M. Harris and Company, Inc. | | | |
| Blue Dragon Dust | | | |
| Rotenone | 0.75 | 0.88 | Passed |
| Sulfur | 10.00 | 10.16 | |
| Rotenone | 0.75 | 0.69 | Passed |
| Sulfur | 10.00 | 10.31 | |
| Rotenone | 0.75 | 0.67 | Passed |
| Sulfur | 10.00 | 10.30 | |
| Rotenone | 0.75 | 0.73 | Passed |
| Sulfur | 10.00 | 10.09 | |
| Rotenone | 0.75 | 0.74 | Passed |
| Sulfur | 10.00 | 10.85 | |
| Rotenone | 0.75 | 0.70 | Deficient |
| Sulfur | 10.00 | 8.78 | |
| Rotenone | 0.75 | 0.69 | Passed |
| Sulfur | 10.00 | 11.75 | |
| Rotenone | 0.75 | 0.71 | Passed |
| Sulfur | 10.00 | 9.57 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|------------------------------|------------------------|-------------------|-----------|
| Blue Dragon Dust (Continued) | | | |
| Rotenone | 0.75 | 0.76 | Passed |
| Sulfur | 10.00 | 9.86 | |
| Rotenone | 0.75 | 0.79 | Passed |
| Sulfur | 10.00 | 10.24 | |

Maxwell Insecticide Company, Inc.

Maxwell Insecticides 1% Rotenone

| | | | |
|----------------|-------|-------|--------|
| Rotenone | 1.00 | 1.28 | Passed |
| Sulfur | 15.00 | 21.69 | |
| Rotenone | 1.00 | 1.05 | Passed |
| Sulfur | 15.00 | 16.30 | |
| Rotenone | 1.00 | 0.99 | Passed |
| Sulfur | 15.00 | 15.68 | |
| Rotenone | 1.00 | 1.08 | Passed |
| Sulfur | 15.00 | 16.15 | |
| Rotenone | 1.00 | 0.97 | Passed |
| Sulfur | 15.00 | 15.63 | |
| Rotenone | 1.00 | 0.90 | Passed |
| Sulfur | 15.00 | 17.74 | |
| Rotenone | 1.00 | 0.97 | Passed |
| Sulfur | 15.00 | 15.32 | |

Maxwell Insecticides Cattle Grub and
Louse Powder

| | | | |
|----------------|-------|-------|--------|
| Rotenone | 1.50 | 1.56 | Passed |
| Sulfur | 65.00 | 65.26 | |
| Rotenone | 1.50 | 1.62 | Passed |
| Sulfur | 65.00 | 64.83 | |
| Rotenone | 1.50 | 1.48 | Passed |
| Sulfur | 65.00 | 66.03 | |
| Rotenone | 1.50 | 1.73 | Passed |
| Sulfur | 65.00 | 64.67 | |

Miller Chemical and Fertilizer Corp.

Tu-Ba-Cide Containing Rotenone 1%

| | | | |
|----------------|-------|-------|--------|
| Rotenone | 1.00 | 0.97 | Passed |
| Sulfur | 25.00 | 29.52 | |
| Rotenone | 1.00 | 1.02 | Passed |
| Sulfur | 25.00 | 29.53 | |
| Rotenone | 1.00 | 0.99 | Passed |
| Sulfur | 25.00 | 29.62 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| Naco Fertilizer Company (Now: Davison Chemical Company) | | | |
| Naco 1% Rotosul Dust | | | |
| Rotenone | 1.00 | 0.92 | Passed |
| Sulfur | 10.00 | 10.46 | |
| Rotenone | 1.00 | 0.88 | Passed |
| Sulfur | 10.00 | 10.27 | |
| W. R. Peele Company, Inc. | | | |
| Pelco 1% Rotenone Dust | | | |
| Rotenone | 1.00 | 0.91 | Passed |
| Sulfur | 15.00 | 14.52 | |
| Rotenone | 1.00 | 1.02 | Passed |
| Sulfur | 15.00 | 15.54 | |
| Planters Chemical Corp. | | | |
| Planters Mexican Bean Beetle Dust or Spray | | | |
| Rotenone | 0.75 | 0.64 | Deficient |
| Sulfur | 25.00 | 23.25 | |
| Sam Houston Company | | | |
| Houston's Rotenone Sulfur Talc Mixture | | | |
| Rotenone | 0.75 | 0.80 | Passed |
| Sulfur | 10.00 | 12.38 | |
| Rotenone | 0.75 | 0.73 | Passed |
| Sulfur | 10.00 | 9.87 | |
| Rotenone | 0.75 | 0.71 | Passed |
| Sulfur | 10.00 | 12.44 | |
| Houston's Rotenone 1.00 | | | |
| Rotenone | 1.00 | 0.83 | Passed |
| Sulfur | 75.00 | 84.65 | |
| Seacoast Laboratories, Inc. | | | |
| Twin Light Dustall ¾% | | | |
| Rotenone | 0.75 | 0.78 | Passed |
| Sulfur | 3.00 | 3.09 | |
| Twin Light 1% Dustall | | | |
| Rotenone | 1.00 | 1.31 | Passed |
| Sulfur | 3.00 | 3.77 | |
| Rotenone | 1.00 | 0.98 | Passed |
| Sulfur | 3.00 | 3.90 | |
| Rotenone | 1.00 | 0.85 | Deficient |
| Sulfur | 3.00 | 1.82 | |
| Rotenone | 1.00 | 1.25 | Passed |
| Sulfur | 3.00 | 4.92 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| Woolfolk Chemical Works, Ltd. | | | |
| Security Brand Mexide Dust | | | |
| Rotenone | 0.75 | 0.72 | Passed |
| Sulfur | 25.00 | 29.10 | |
| Job P. Wyatt and Sons Company | | | |
| Wyatt's 1% Rotenone Dust | | | |
| Rotenone | 1.00 | 0.97 | Passed |
| Sulfur | 15.00 | 17.02 | |
| Rotenone | 1.00 | 1.06 | Passed |
| Sulfur | 15.00 | 14.53 | |
| Rotenone | 1.00 | 0.98 | Passed |
| Sulfur | 15.00 | 15.88 | |
| SABADILLA | | | |
| Cape Fear Chemicals, Inc. | | | |
| Tiger Brand 20% Sabadilla Dust | | | |
| Sabadilla alkaloids | 0.80 | 0.98 | Passed |
| Carolina Chemicals, Inc. | | | |
| Flight Brand 20% Sabadilla Dust | | | |
| Sabadilla alkaloids | 1.00 | 0.93 | Passed |
| do | 1.00 | 0.96 | Passed |
| do | 0.80 | 0.92 | Passed |
| Daly-Herring Company | | | |
| Dee Aitch 20% Sabadilla Dust | | | |
| Sabadilla alkaloids | 0.80 | 0.82 | Passed |
| do | 0.80 | 0.97 | Passed |
| do | 0.80 | 0.84 | Passed |
| do | 0.80 | 0.84 | Passed |
| Farmers Cooperative Exchange, Inc. | | | |
| F.C.X. Saba-Dil No. 10 | | | |
| Sabadilla alkaloids | 0.30 | 0.44 | Passed |
| do | 0.30 | 0.48 | Passed |
| do | 0.30 | 0.47 | Passed |
| do | 0.30 | 0.55 | Passed |
| F.C.X. Saba-Dil No. 20 | | | |
| Sabadilla alkaloids | 0.80 | 0.82 | Passed |
| do | 0.80 | 0.81 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| Graham Chemical Company | | | |
| Graham's Red Star 20% Sabadilla Dust | | | |
| Sabadilla alkaloids | 0.80 | 0.73 | Deficient |
| do | 0.80 | 0.98 | Passed |
| do | 0.80 | 0.70 | Deficient |
| J. M. Harris & Company, Inc. | | | |
| Dragon Sabadilla Dust | | | |
| Sabadilla alkaloids | 0.80 | 1.13 | Passed |
| Kentucky Color & Chemical Company, Inc. | | | |
| Shawnee "Activated" Sabadilla Dust | | | |
| Sabadilla alkaloids | 0.40 | 0.47 | Passed |
| Maxwell Insecticide Company, Inc. | | | |
| Maxwell 20% Sabadilla Dust | | | |
| Sabadilla alkaloids | 0.80 | 0.89 | Passed |
| do | 0.80 | 0.79 | Passed |
| Standard Fertilizer Company (Now: Olin Mathieson Chemical Corp.) | | | |
| Gro-More Sabadilla 20% Dust | | | |
| Sabadilla alkaloids | 0.88 | 0.83 | Passed |
| do | 0.88 | 0.89 | Passed |
| Planters Chemical Corp. | | | |
| Planters 20% Sabadilla Dust | | | |
| Sabadilla alkaloids | 0.80 | 0.78 | Passed |
| Woolfolk Chemical Works, Ltd. | | | |
| Security Brand Sabane Dust | | | |
| Sabadilla alkaloids | 0.80 | 0.84 | Passed |
| do | 0.80 | 0.80 | Passed |
| Job P. Wyatt & Sons Company | | | |
| Wyatt's 20% Sabadilla Dust | | | |
| Sabadilla alkaloids | 0.80 | 1.03 | Passed |
| do | 0.80 | 0.97 | Passed |
| do | 0.80 | 0.93 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|-----------|
| TOXAPHENE | | | |
| Acme Fertilizer Company | | | |
| Acme 20% Toxaphene | | | |
| Toxaphene | 20.00 | 19.29 | Passed |
| do | 20.00 | 20.29 | Passed |
| Apex Chemical Company | | | |
| Toxaphene "20" Dust | | | |
| Toxaphene | 20.00 | 19.72 | Passed |
| do | 20.00 | 19.43 | Passed |
| Atlas Chemical Corp. | | | |
| Atlas Toxaphene Dust | | | |
| Toxaphene | 20.00 | 20.43 | Passed |
| Boyle-Midway, Inc. | | | |
| Snarol Cutworm Bait | | | |
| Toxaphene | 5.00 | 9.57 | Passed |
| California Spray-Chemical Corp. | | | |
| Alltox 20 Dust | | | |
| Toxaphene | 20.00 | 20.57 | Passed |
| do | 20.00 | 20.57 | Passed |
| do | 20.00 | 20.86 | Passed |
| do | 20.00 | 20.33 | Passed |
| do | 20.00 | 20.43 | Passed |
| Alltox 6 Spray | | | |
| Toxaphene | 58.50 | 58.84 | Passed |
| Cape Fear Chemicals, Inc. | | | |
| Tiger Brand 10% Toxaphene Dust | | | |
| Toxaphene | 10.00 | 10.07 | Passed |
| do | 10.00 | 10.57 | Passed |
| do | 10.00 | 8.72 | Deficient |
| do | 10.00 | 7.14 | Deficient |
| Tiger Brand 20% Toxaphene Dust | | | |
| Toxaphene | 20.00 | 19.11 | Passed |
| do | 20.00 | 19.43 | Passed |
| do | 20.00 | 17.86 | Deficient |
| do | 20.00 | 20.00 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| Tiger Brand 20% Toxaphene Dust (Continued) | | | |
| Toxaphene | 20.00 | 19.57 | Passed |
| do | 20.00 | 19.86 | Passed |
| do | 20.00 | 19.72 | Passed |
| do | 20.00 | 19.86 | Passed |
| Tiger Brand Toxaphene Emulsion-60 | | | |
| Toxaphene | 60.40 | 58.48 | Passed |
| do | 60.40 | 58.44 | Passed |
| Carolina Chemicals, Inc. | | | |
| Flight Brand Toxaphene Dust 20-0 | | | |
| Toxaphene | 20.00 | 20.29 | Passed |
| Daly-Herring Company | | | |
| Dee Aitch 20% Toxaphene | | | |
| Toxaphene | 20.00 | 20.00 | Passed |
| Farmers Cooperative Exchange, Inc. | | | |
| F.C.X. 20-0 Toxaphene Dust | | | |
| Toxaphene | 20.00 | 20.00 | Passed |
| do | 20.00 | 19.43 | Passed |
| do | 20.00 | 19.00 | Passed |
| do | 20.00 | 20.14 | Passed |
| do | 20.00 | 20.00 | Passed |
| do | 20.00 | 20.00 | Passed |
| do | 20.00 | 20.00 | Passed |
| do | 20.00 | 19.86 | Passed |
| do | 20.00 | 19.57 | Passed |
| do | 20.00 | 20.14 | Passed |
| do | 20.00 | 19.43 | Passed |
| do | 20.00 | 20.14 | Passed |
| do | 20.00 | 20.00 | Passed |
| do | 20.00 | 19.86 | Passed |
| do | 20.00 | 20.00 | Passed |
| do | 20.00 | 19.86 | Passed |
| do | 20.00 | 20.29 | Passed |
| do | 20.00 | 20.29 | Passed |
| do | 20.00 | 18.57 | Deficient |
| F.C.X. 60% Toxaphene Emulsifiable Concentrate | | | |
| Toxaphene | 60.00 | 59.35 | Passed |
| do | 60.00 | 56.38 | Deficient |
| do | 60.00 | 58.61 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| Howerton Gowen Company | | | |
| Gowen's 20% Toxaphene Dust (without Sulfur) | | | |
| Toxaphene | 20.00 | 20.14 | Passed |
| do | 20.00 | 19.86 | Passed |
| do | 20.00 | 19.29 | Passed |
| Johnson Cotton Company, Inc. | | | |
| Southern Quality 20% Toxaphene Dust | | | |
| Toxaphene | 20.00 | 19.72 | Passed |
| do | 20.00 | 19.43 | Passed |
| Kirby Chemical Company, Inc. | | | |
| Red Key 20% Toxaphene | | | |
| Toxaphene | 20.00 | 19.57 | Passed |
| Mathieson Chemical Corp. (Now: Olin Mathieson Chemical Corp.) | | | |
| Mathieson Toxaphene 20% Dust | | | |
| Toxaphene | 20.00 | 19.14 | Passed |
| do | 20.00 | 20.00 | Passed |
| do | 20.00 | 20.14 | Passed |
| do | 20.00 | 20.43 | Passed |
| do | 20.00 | 19.72 | Passed |
| do | 20.00 | 20.57 | Passed |
| do | 20.00 | 20.14 | Passed |
| do | 20.00 | 20.00 | Passed |
| do | 20.00 | 20.29 | Passed |
| do | 20.00 | 20.43 | Passed |
| do | 20.00 | 20.86 | Passed |
| do | 20.00 | 19.14 | Passed |
| do | 20.00 | 19.57 | Passed |
| do | 20.00 | 20.57 | Passed |
| do | 20.00 | 20.29 | Passed |
| do | 20.00 | 18.00 | Deficient |
| Mathieson Toxaphene Spray Concentrate | | | |
| Toxaphene | 59.00 | 60.33 | Passed |
| Maxwell Insecticide Company, Inc. | | | |
| Maxwell 10% Toxaphene Dust | | | |
| Toxaphene | 10.00 | 9.72 | Passed |
| do | 10.00 | 9.86 | Passed |
| do | 10.00 | 10.07 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|-----------|
| Maxwell 20% Toxaphene Dust | | | |
| Toxaphene | 20.00 | 20.29 | Passed |
| do | 20.00 | 19.72 | Passed |
| do | 20.00 | 19.72 | Passed |
| do | 20.00 | 19.72 | Passed |
| do | 20.00 | 19.57 | Passed |
| do | 20.00 | 20.29 | Passed |
| do | 20.00 | 19.72 | Passed |
| do | 20.00 | 18.57 | Deficient |
| do | 20.00 | 18.86 | Deficient |
| do | 20.00 | 18.57 | Deficient |
| do | 20.00 | 19.72 | Passed |
| do | 20.00 | 20.00 | Passed |
| do | 20.00 | 20.14 | Passed |
| do | 20.00 | 20.57 | Passed |
| do | 20.00 | 20.43 | Passed |
| do | 20.00 | 19.43 | Passed |
| do | 20.00 | 20.00 | Passed |
| do | 20.00 | 19.86 | Passed |
| do | 20.00 | 19.57 | Passed |
| do | 20.00 | 19.86 | Passed |
| Naco Fertilizer Company (Now: Davison Chemical Company) | | | |
| Naco 10% Toxaphene Dust | | | |
| Toxaphene | 10.00 | 10.22 | Passed |
| do | 10.00 | 10.07 | Passed |
| Naco Toxaphene Cotton Dust 20-0 | | | |
| Toxaphene | 20.00 | 20.43 | Passed |
| W. R. Peele Company, Inc. | | | |
| Pelco 10% Toxaphene Dust | | | |
| Toxaphene | 10.00 | 10.22 | Passed |
| Pelco 20% Toxaphene Dust | | | |
| Toxaphene | 20.00 | 20.00 | Passed |
| do | 20.00 | 20.00 | Passed |
| do | 20.00 | 19.57 | Passed |
| do | 20.00 | 20.57 | Passed |
| do | 20.00 | 19.90 | Passed |
| do | 20.00 | 19.72 | Passed |
| do | 20.00 | 19.25 | Passed |
| do | 20.00 | 19.72 | Passed |
| do | 20.00 | 20.00 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--------------------------------------|------------------------|-------------------|-----------|
| Pelco 20% Toxaphene Dust (Continued) | | | |
| Toxaphene | 20.00 | 19.29 | Passed |
| do | 20.00 | 20.29 | Passed |
| do | 20.00 | 20.14 | Passed |
| do | 20.00 | 20.43 | Passed |
| do | 20.00 | 19.57 | Passed |
| do | 20.00 | 19.72 | Passed |
| do | 20.00 | 19.57 | Passed |
| do | 20.00 | 20.00 | Passed |
| do | 20.00 | 20.14 | Passed |
| do | 20.00 | 19.86 | Passed |
| do | 20.00 | 20.43 | Passed |
| do | 20.00 | 20.29 | Passed |
| do | 20.00 | 20.29 | Passed |
| do | 20.00 | 19.72 | Passed |
| do | 20.00 | 19.86 | Passed |
| do | 20.00 | 20.86 | Passed |
| do | 20.00 | 20.43 | Passed |
| do | 20.00 | 20.00 | Passed |
| do | 20.00 | 19.72 | Passed |
| do | 20.00 | 20.00 | Passed |
| do | 20.00 | 19.57 | Passed |
| do | 20.00 | 20.29 | Passed |
| do | 20.00 | 19.29 | Passed |
| do | 20.00 | 19.72 | Passed |
| do | 20.00 | 20.00 | Passed |
| do | 20.00 | 20.00 | Passed |
| do | 20.00 | 20.00 | Passed |
| do | 20.00 | 20.00 | Passed |
| do | 20.00 | 20.00 | Passed |
| do | 20.00 | 20.43 | Passed |
| do | 20.00 | 20.14 | Passed |
| do | 20.00 | 20.00 | Passed |

Pennsylvania Salt Manufacturing Company

Penco Toxaphene E-60

| | | | |
|-----------------|-------|-------|--------|
| Toxaphene | 60.00 | 60.00 | Passed |
| do | 60.00 | 60.87 | Passed |
| do | 60.00 | 61.89 | Passed |
| do | 60.00 | 58.03 | Passed |

Planters Chemical Corp.

Planters 20% Toxaphene Dust

| | | | |
|-----------------|-------|-------|--------|
| Toxaphene | 20.00 | 19.57 | Passed |
| do | 20.00 | 19.43 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|---|------------------------|-------------------|-----------|
| Planters 20% Toxaphene Dust (Continued) | | | |
| Toxaphene | 20.00 | 20.00 | Passed |
| do | 20.00 | 20.00 | Passed |
| do | 20.00 | 21.00 | Passed |
| do | 20.00 | 19.86 | Passed |
| do | 20.00 | 20.14 | Passed |
| do | 20.00 | 19.86 | Passed |
| do | 20.00 | 20.00 | Passed |
| do | 20.00 | 19.72 | Passed |
| Quality Chemical Company | | | |
| 20% Toxaphene Dust | | | |
| Toxaphene | 20.00 | 20.86 | Passed |
| do | 20.00 | 20.14 | Passed |
| do | 20.00 | 19.72 | Passed |
| do | 20.00 | 20.14 | Passed |
| do | 20.00 | 21.00 | Passed |
| do | 20.00 | 19.72 | Passed |
| do | 20.00 | 20.00 | Passed |
| Stauffer Chemical Company | | | |
| Stauffer Cotton Dust No. 81 | | | |
| Toxaphene | 20.00 | 20.14 | Passed |
| do | 20.00 | 20.57 | Passed |
| do | 20.00 | 19.29 | Passed |
| do | 20.00 | 20.00 | Passed |
| Taylor Chemical Company | | | |
| Superkill 20% Toxaphene Dust | | | |
| Toxaphene | 20.00 | 20.00 | Passed |
| do | 20.00 | 19.43 | Passed |
| do | 20.00 | 19.29 | Passed |
| do | 20.00 | 20.00 | Passed |
| do | 20.00 | 19.86 | Passed |
| do | 20.00 | 19.57 | Passed |
| do | 20.00 | 19.86 | Passed |
| do | 20.00 | 19.29 | Passed |
| do | 20.00 | 20.00 | Passed |
| do | 20.00 | 20.86 | Passed |
| Superkill 60% Toxaphene | | | |
| Toxaphene | 60.00 | 60.43 | Passed |
| do | 60.00 | 61.23 | Passed |
| do | 60.00 | 62.50 | Passed |
| do | 60.00 | 61.43 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|-------------------------------------|------------------------|-------------------|-----------|
| Superkill 60% Toxaphene (Continued) | | | |
| Toxaphene | 60.00 | 62.30 | Passed |
| do | 60.00 | 60.55 | Passed |
| do | 60.00 | 59.73 | Passed |

Virginia-Carolina Chemical Corp.
(Now: Diamond Black Leaf Company)

"Black Leaf" 20% Toxaphene Dust

| | | | |
|-----------------|-------|-------|--------|
| Toxaphene | 20.00 | 20.72 | Passed |
| do | 20.00 | 20.29 | Passed |
| do | 20.00 | 21.00 | Passed |

Woolfolk Chemical Works, Ltd.

Security Brand 20% Toxaphene Dust

| | | | |
|-----------------|-------|-------|--------|
| Toxaphene | 20.00 | 20.86 | Passed |
| do | 20.00 | 20.29 | Passed |
| do | 20.00 | 20.43 | Passed |
| do | 20.00 | 19.86 | Passed |
| do | 20.00 | 20.43 | Passed |

Security Brand Tox-Sol-6 Emulsifiable
Concentrate

| | | | |
|-----------------|-------|-------|--------|
| Toxaphene | 58.50 | 57.58 | Passed |
|-----------------|-------|-------|--------|

TOXAPHENE - PARATHION

Mike, Inc.

101 Brand Pre-Heading Cabbage Dust

| | | | |
|-----------------|-------|-------|-----------|
| Toxaphene | 10.00 | 10.36 | Passed |
| Parathion | 1.50 | 1.77 | |
| Toxaphene | 10.00 | 10.22 | Deficient |
| Parathion | 1.50 | 1.12 | |

Southern Agricultural Insecticides, Inc.

SA-50 Brand Pre-Heading Cabbage Dust

| | | | |
|-----------------|-------|-------|--------|
| Toxaphene | 10.00 | 10.29 | Passed |
| Parathion | 1.50 | 1.79 | |
| Toxaphene | 10.00 | 10.29 | Passed |
| Parathion | 1.50 | 1.78 | |
| Toxaphene | 10.00 | 10.07 | Passed |
| Parathion | 1.50 | 1.75 | |
| Toxaphene | 10.00 | 10.14 | Passed |
| Parathion | 1.50 | 1.70 | |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--------------------------|------------------------|-------------------|-----------|
|--------------------------|------------------------|-------------------|-----------|

SA-50 Brand Pre-Heading Cabbage Dust (Continued)

| | | | |
|-----------------|-------|-------|--------|
| Toxaphene | 10.00 | 10.43 | Passed |
| Parathion | 1.50 | 1.65 | |
| Toxaphene | 10.00 | 10.43 | Passed |
| Parathion | 1.50 | 1.70 | |

TOXAPHENE - SULFUR

Olin Mathieson Chemical Corp.

Mathieson "20-40" Toxaphene Dust

| | | | |
|-----------------|-------|-------|--------|
| Toxaphene | 20.00 | 19.43 | Passed |
| Sulfur | 40.00 | 44.77 | |

WARFARIN

Rodent Control Fund

Ready Mixed Warfarin Rat & Mouse Bait

| | | | |
|----------------|-------|-------|--------|
| Warfarin | 0.025 | 0.030 | Passed |
|----------------|-------|-------|--------|

Southern Chemical Company

Nok-Out Warfarin

| | | | |
|----------------|-------|-------|--------|
| Warfarin | 0.025 | 0.032 | Passed |
|----------------|-------|-------|--------|

ZINEB

Cape Fear Chemicals, Inc.

Tiger Brand 10% Dithane Dust

| | | | |
|--|------|-------|--------|
| Zinc ethylene bisdithiocarbamate | 6.50 | 8.21 | Passed |
| do | 6.50 | 15.35 | Passed |
| do | 6.50 | 12.99 | Passed |

Daly-Herring Company

Dee Aitch 10% Dithane Dust

| | | | |
|--|------|------|--------|
| Zinc ethylene bisdithiocarbamate | 6.50 | 7.81 | Passed |
|--|------|------|--------|

Farmers Cooperative Exchange, Inc.

F.C.X. 6.5% Zineb Dust

| | | | |
|--|------|------|--------|
| Zinc ethylene bisdithiocarbamate | 6.50 | 7.91 | Passed |
| do | 6.50 | 8.11 | Passed |
| do | 6.50 | 7.91 | Passed |
| do | 6.50 | 7.91 | Passed |
| do | 6.50 | 8.10 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|-----------|
| Graham Chemical Company | | | |
| Graham's Red Star 10% "Dithane" Dust | | | |
| Zinc ethylene bisdithiocarbamate | 6.50 | 7.82 | Passed |
| do | 6.50 | 7.62 | Passed |
| do | 6.50 | 7.42 | Passed |
| Maxwell Insecticide Company, Inc. | | | |
| Maxwell 10% "Dithane" Dust | | | |
| Zinc ethylene bisdithiocarbamate | 6.50 | 8.01 | Passed |
| do | 6.50 | 7.91 | Passed |
| Naco Fertilizer Company (Now: Davison Chemical Company) | | | |
| Naco 10% Dithane Dust Z-78 | | | |
| Zinc ethylene bisdithiocarbamate | 6.50 | 6.45 | Passed |
| Pearson & Company | | | |
| Pearson Azalea Petal Blight Dust | | | |
| Zinc ethylene bisdithiocarbamate | 3.25 | 3.29 | Passed |
| W. R. Peele Company, Inc. | | | |
| Pelco 10% Dithane Dust Z-78 | | | |
| Zinc ethylene bisdithiocarbamate | 6.50 | 7.81 | Passed |
| do | 6.50 | 7.82 | Passed |
| do | 6.50 | 7.03 | Passed |
| do | 6.50 | 7.81 | Passed |
| do | 6.50 | 7.86 | Passed |
| Taylor Chemical Company | | | |
| Superkill Zineb | | | |
| Zinc ethylene bisdithiocarbamate | 6.50 | 7.06 | Passed |
| MISCELLANEOUS - INORGANIC | | | |
| Chipman Chemical Company, Inc. | | | |
| Chipman Atlacide | | | |
| Sodium chlorate | 58.00 | 58.23 | Passed |
| do | 58.00 | 58.23 | Passed |
| Nott Manufacturing Company | | | |
| Ant-X | | | |
| Thallium sulfate | 1.25 | 1.20 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|----------------|
| MISCELLANEOUS - ORGANIC | | | |
| Dr. Hess & Clark, Inc. | | | |
| Dr. Hess Anturat | | | |
| Alpha naphthyl thiourea | 20.00 | 19.27 | Passed |
| Nott Manufacturing Company | | | |
| Nott's Rat Tu | | | |
| Alpha naphthyl thiourea | 5.00 | 5.05 | Not registered |
| The Dill Company | | | |
| Dill's All-Over Flea Powder | | | |
| Beta thiocyno ethyl esters of aliphatic fatty acids—10 to 18 carbon atoms ... | 2.00 | 2.58 | Passed |
| Geigy Agricultural Chemicals | | | |
| Geigy Diazinon Fly Bait | | | |
| Diazinon | 1.00 | 1.00 | Passed |
| do | 1.00 | 0.98 | Passed |
| Tobacco By-Products & Chemical Corp. (Now: Diamond Black Leaf Company) | | | |
| "Black Leaf" 5% Dieldrin Granular | | | |
| Dieldrin | 5.00 | 6.36 | Passed |
| Naco Fertilizer Company (Now: Davison Chemical Company) | | | |
| Naco 1½% Dilan & 50% Sulfur Dust | | | |
| Dilan | 1.50 | 1.76 | Passed |
| Sulfur | 50.00 | 48.32 | |
| Pittsburgh Coke & Chemical Company | | | |
| Pittsburgh Dipterex-199 | | | |
| O, O-dimethyl-l-hydroxy, 2, 2, 2-trichloro- ethyl phosphonate | 1.00 | 0.96 | Passed |
| O, O-dimethyl-l-hydroxy, 2, 2, 2-trichloro- ethyl phosphonate | 1.00 | 1.08 | Passed |
| Monsanto Chemical Company | | | |
| Monsanto D-Leet | | | |
| 2-methyl-4-chlorophenoxyacetic acid— sodium salt | 11.40 | 12.35 | Passed |

| Manufacturers and Brands | Guaranteed Per Cent | Found Per Cent | Decisions |
|--|------------------------|-------------------|----------------|
| Remark Chemical Company, Inc. | | | |
| Wonder Fungicide | | | |
| Disodium ethylene bisdithiocarbamate..... | 18.00 | 23.32 | Passed |
| Tobacco By-Products & Chemical Corp. (Now: Diamond Black Leaf Company) | | | |
| "Black Leaf" 25% Phygon Fungicide | | | |
| Phygon | 25.00 | 25.16 | Passed |
| Carolina Chemicals, Inc. | | | |
| Flight Brand Pentachlorophenol Concentrate | | | |
| Pentachlorophenol | 41.00 | 42.77 | Passed |
| California Spray-Chemical Corp. | | | |
| Volck Oil Spray | | | |
| Petroleum oils | 97.00 | 96.95 | Passed |
| Master Laboratories | | | |
| Star Mole Killer | | | |
| Strychnine | 0.50 | 0.45 | Not registered |
| Cape Fear Chemicals, Inc. | | | |
| Tiger Brand 40% TEPP Spray | | | |
| Tetraethyl pyrophosphate | 40.00 | | |
| Other related organic phosphates..... | 60.00 | | |
| Phosphorus as elemental | | 21.38 | Passed |

